

# 150Mbps Wireless 3G Compact Router

**3G-6200nL**  
**user manual**

Version 1.0 / 3, 2010



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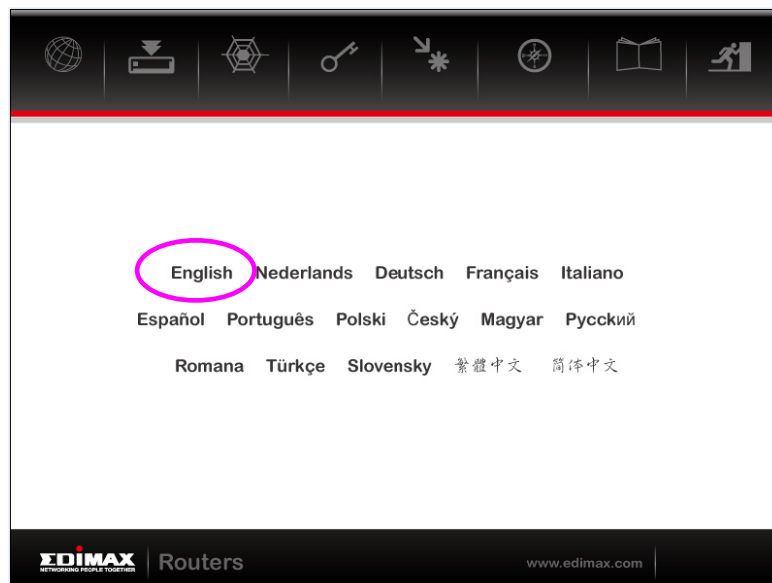
## Chapter I: Product Information

### 1-1 Introduction and safety information

Thank you for purchasing Edimax 3G-6200nL wireless 3G broadband router! This high cost-efficiency router is the best choice for Mobile / Small office / Home office users, all computers and network devices can share a single wireless 3G modem or xDSL / cable\*\* modem internet connection at high speed. Easy install procedures allows any computer users to setup a network environment in very short time - within minutes, even inexperienced. When the number of your computers and network-enabled devices grow, you can also expand the number of network slot by simple attach a hub or switch, to extend the scope of your network!

You can configure the router by running the Setup Wizard in the CD-ROM provided in the package. The wizard provides quick setup for wireless 3G/3.5G Internet connection, SSID, wireless security, firmware upgrade and changing router's password. When you start the Setup Wizard, you will get the following Welcome screen. Please choose the language to start with and follow the easy steps in the Wizard. No instruction for the Setup Wizard is given here.

If you lost the CD-ROM or you prefer the traditional web setup, please follow the procedures in Manual to configure the router



Note 1: Only one Internet connection (wireless 3G or xDSL/Cable) can be used at the same time.

Note 2: To prevent the compatibility problem between 3G USB Modem and 3G router, it is recommended that you upgrade the latest firmware of 3G router from Edimax website <http://www.edimax.com> .

## **Features**

- Provides IEEE 802.11g/b wireless LAN access point
- Compatible with IEEE 802.11n standard with 150Mbps data rate
- High Internet access throughput
- Allow multiple users to share a single Internet connection
- Supports up to 253 network client users
- Provides one USB port for 3G wireless connection
- Internet Access via 3G modem or Cable/xDSL modem
- Access Servers on your LAN from the Public Network
- Equipped with one Ethernet port for LAN or WAN
- Support DHCP (Server/Client) for easy setup
- Support advance features such as: special applications, DMZ, virtual server, access control, firewall
- Allow you to monitor the router's status such as: DHCP Client Log, System Log, Security Log and Device/Connection Status
- Easy to use Web-based GUI for configuration and management
- Remote Management allows configuration and upgrades from a remote site (over the Internet)

## **Minimum Requirements**

- One External xDSL (ADSL) or Cable modem with an Ethernet port (RJ-45)
- Network Interface Card (NIC) for each Personal Computer (PC)
- Computer with a Web-Browser (Internet Explorer 5.0 or higher / Netscape Navigator 7.2 or higher)

## **Package Contents**

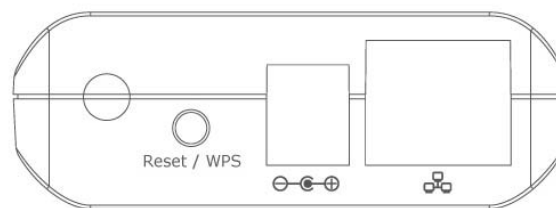
- One Wireless 3G broadband router
- One Quick Installation Guide
- One CD-ROM (Wizard, Multi-languages QIG and User Manual)
- One Power Adapter
- Ethernet Cable
- Accessories

## Note

The WAN “idle timeout” auto-disconnect function may not work due to abnormal activities of some network application software, computer virus or hacker attacks from the Internet. For example, some software sends network packets to the Internet in the background, even when you are not using the Internet. So please turn off your computer when you are not using it. This function also may not work with some ISP. So please make sure this function can work properly when you use this function in the first time, especially your ISP charge you by access time.

## Back Panel

The diagram (fig1.0) below shows the broadband router's back panel. The router's back panel is divided into four sections, LAN, WAN, USB, and Reset:



**Figure 1.0**

### 1) WAN/LAN Port

The Fast Ethernet port is for you to connect with xDSL/Cable modem or connect with computer. The default setting is for you to connect with computer or switch to extend network. If you would like to access Internet via xDSL/Cable modem, you can login 3G-6200nL to enable

WAN function (to click



button ).

### 2)Antenna

For you to connect with antenna to get stronger wireless signal.

### 3) USB

The USB port allow you to share internet via 3G USB modem card.

### 4) WPS / Reset button

You can press the button 2~4 seconds to enable WPS for wireless security.

When you experience some problem on using this router, or you forgot

your password, you can press the reset button for **longer** than 10 seconds and the router will reset itself to the factory default settings (**warning:** your original configurations will be replaced with the factory default settings)




#### 4) Power Jack

5V2A switching power adapter.

#### Front Panel

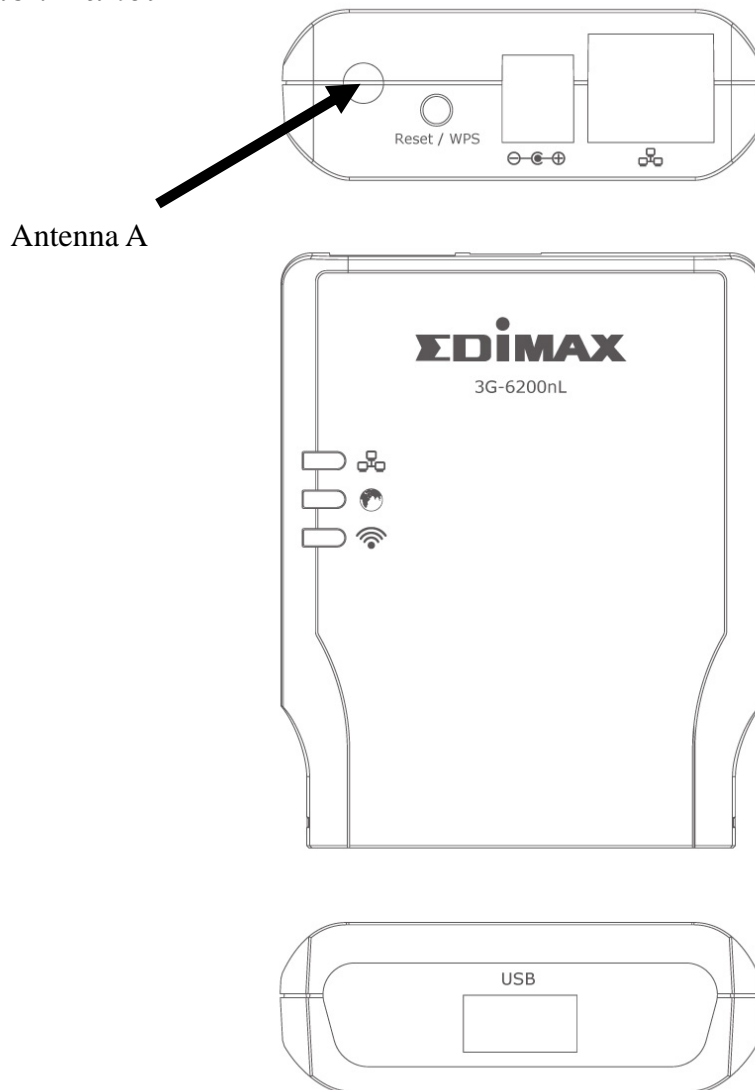
On the router's front panel there are LEDs, which shows the status of this router. Below is the list of each LED and its description.



LED	Light Status	Description
WLAN 	On	Wireless WPS function is enabled.
	Off	Wireless network is switched off.
	Flashing	Wireless LAN activity (transferring or receiving data).
ETHERNET 	On	ETHERNET port is connected.
	Off	ETHERNET port is not connected.
	Flashing	ETHERNET activity (transferring or receiving data).
INTERNET 	On	Router is connected to the Internet.
	Off	Router is not connected to the Internet.
	Flashing	Router is connecting to the Internet.



## Back Panel



Item Name	Description
ETHERNET	Local/ Wide Area Network (LAN/WAN) port.
Power	Power connector, connects to A/C power adapter.
Reset / WPS	Reset the router to factory default settings (clear all settings) or start WPS function. Press this button and hold for 10 seconds to restore all settings to factory defaults, and press this button for less than 5 seconds to start WPS function.
Antenna	It is a 2dBi dipole antenna.
USB	Connect your 3G/3.5G USB modem to the USB port to share the 3G mobile Internet connection

## 1-2 Safety Information

In order to keep the safety of users and your properties, please follow the following safety instructions:

1. This router is designed for indoor use only; DO NOT place this router outdoor.
2. DO NOT put this router at or near hot or humid places, like kitchen or bathroom. Also, do not left this router in the car in summer.
3. DO NOT pull any connected cable with force; disconnect it from the router first.
4. If you want to place this router at high places or hang on the wall, please make sure the router is firmly secured. Falling from high places would damage the router and its accessories, and warranty will be void.
5. Accessories of this router, like antenna and power supply, are danger to small children under 3 years old. They may put the small parts in their nose or month and it could cause serious damage to them. **KEEP THIS ROUTER OUT THE REACH OF CHILDREN!**
6. The router will become hot when being used for long time (***This is normal and is not a malfunction***), DO NOT put this router on paper, cloth, or other flammable materials.
7. There's no user-serviceable part inside the router. If you found that the router is not working properly, please contact your dealer of purchase and ask for help. DO NOT disassemble the router, warranty will be void.
8. If the router falls into water when it's powered, DO NOT use your hand to pick it up. Switch the electrical power off before you do anything, or contact an experienced technician for help.
9. If you smell something strange, or even see some smoke coming out from the router or power supply, remove the power supply or switch the electrical power off immediately, and call dealer of purchase for help.

### 1-3 System Requirements

- Internet connection, provided by xDSL or cable modem with a RJ-45 Ethernet port.
- Computer or network devices with wired or wireless network interface card.
- Web browser (*Microsoft Internet Explorer 4.0 or above, Netscape Navigator 4.7 or above, Opera web browser, or Safari web browser*).
- An available power socket

## *Chapter II: System and Network Setup*

### 2-1 Establish network connection

#### Setup Diagram

##### 3G/3.5G Modem card installation:

If you have 3G/3.5G modem card and SIM card, please follow the following instructions to establish connection

1. Connect power adapter to 3G-6200nL
2. Connect another Ethernet cable from the LAN port on router to the Ethernet socket on the PC
3. Insert SIM card into 3G/3.5G modem card, and connect the modem card with one of USB port of 3G-6200nL. The corresponding USB LED indicator on 3G-6200nL will light.



## 2-2 Setup client computers to obtain IP address automatically

After the network connection is established, the next step you should do is setup the router with proper network parameters, so it can work properly in your network environment.

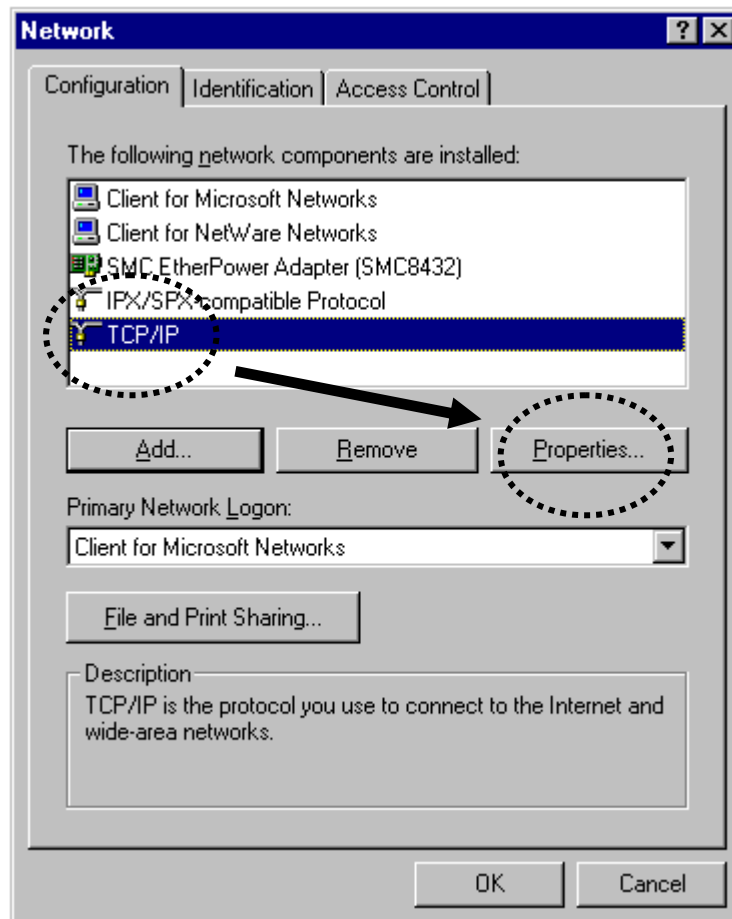
Before you can connect to the router and start configuration procedures, your computer must be able to get an IP address automatically (use dynamic IP address). If it's set to use static IP address, or you're unsure, please follow the following instructions to configure your computer to use dynamic IP address:

*If the operating system of your computer is....*

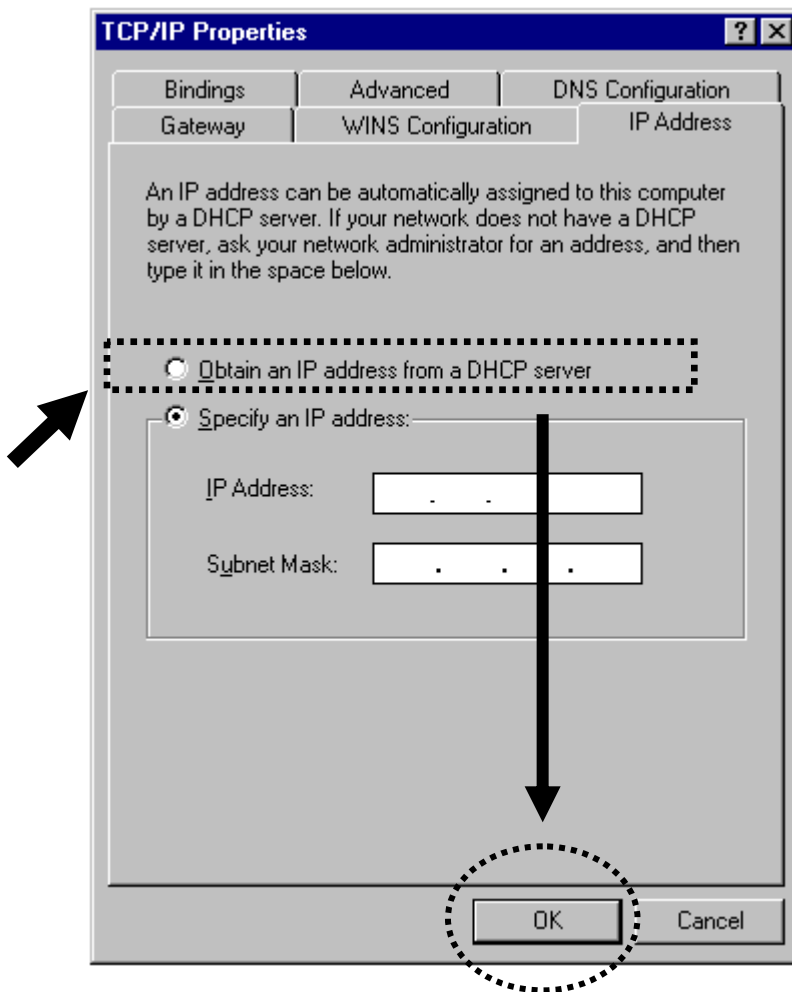
<b>Windows 95/98/Me</b>	<b>- please go to section 2-2-1</b>
<b>Windows 2000</b>	<b>- please go to section 2-2-2</b>
<b>Windows XP</b>	<b>- please go to section 2-2-3</b>
<b>Windows NT</b>	<b>- please go to section 2-2-4</b>

### 2-2-1 Windows 95/98/Me IP address setup:

1. Click 'Start' button (it should be located at lower-left corner of your computer), then click control panel. Double-click **Network** icon, and **Network** window will appear. Select 'TCP/IP', then click 'Properties'.

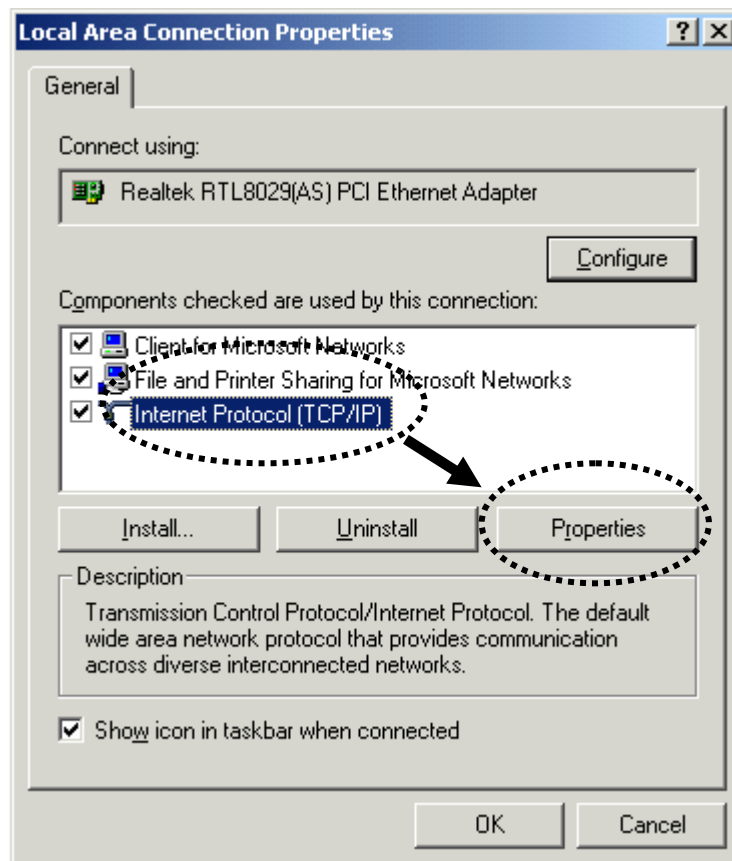


2. Select 'Obtain an IP address from a DHCP server', then click 'OK'.



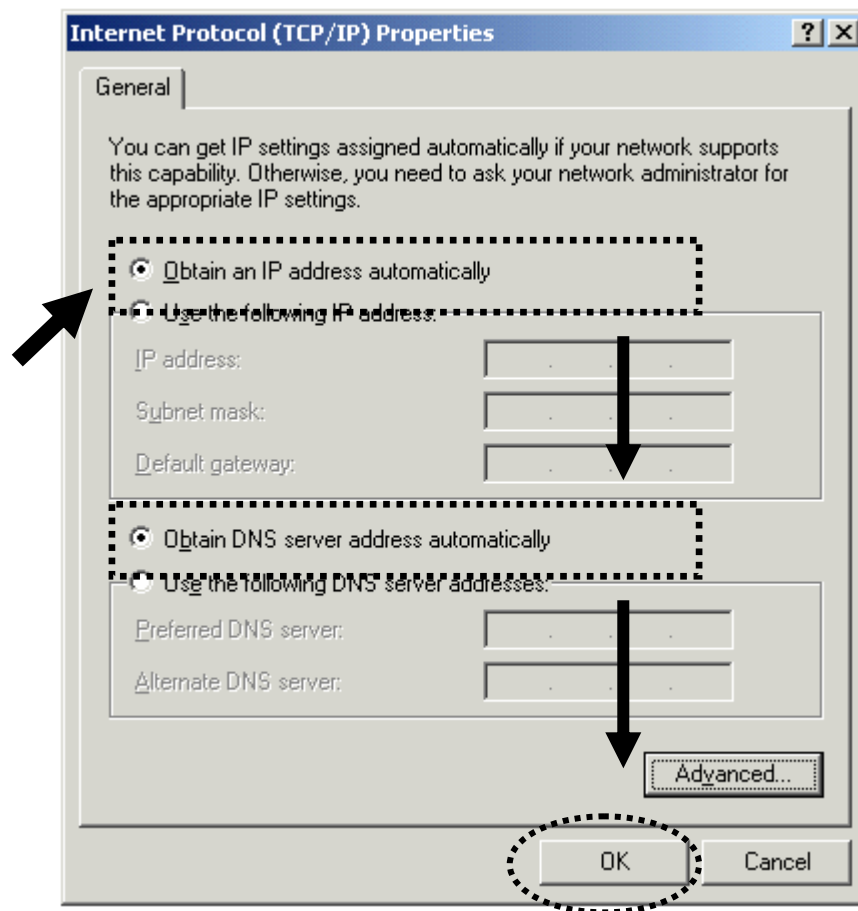
### 2-2-2 Windows 2000 IP address setup:

1. Click 'Start' button (it should be located at lower-left corner of your computer), then click control panel. Double-click **Network and Dial-up Connections** icon, double click **Local Area Connection**, and **Local Area Connection Properties** window will appear. Select 'Internet Protocol (TCP/IP)', then click 'Properties'



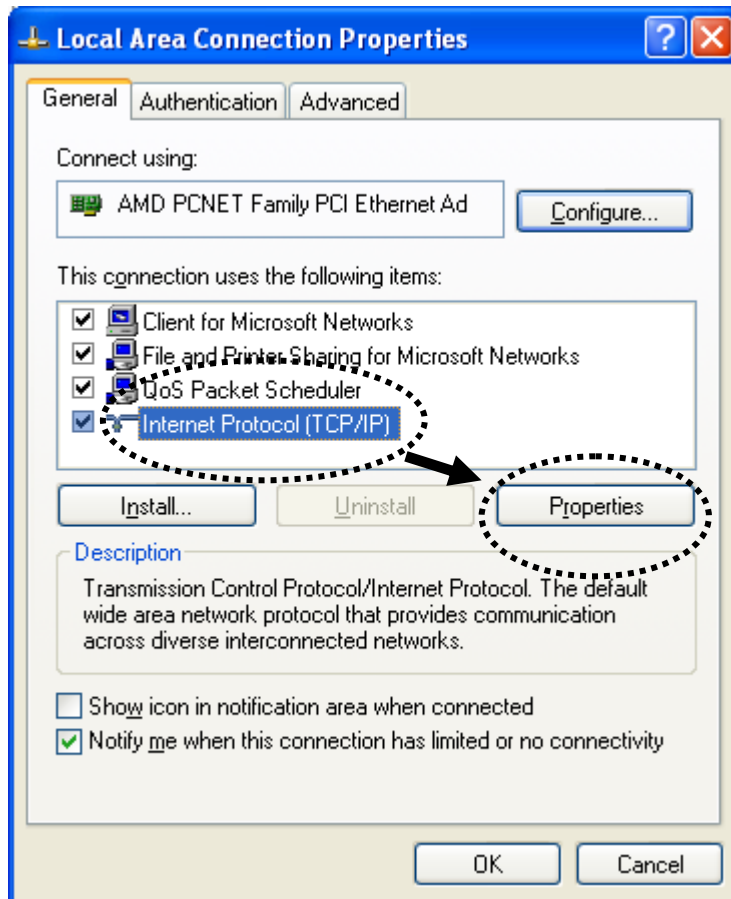


2. Select 'Obtain an IP address automatically' and 'Obtain DNS server address automatically', then click 'OK'.

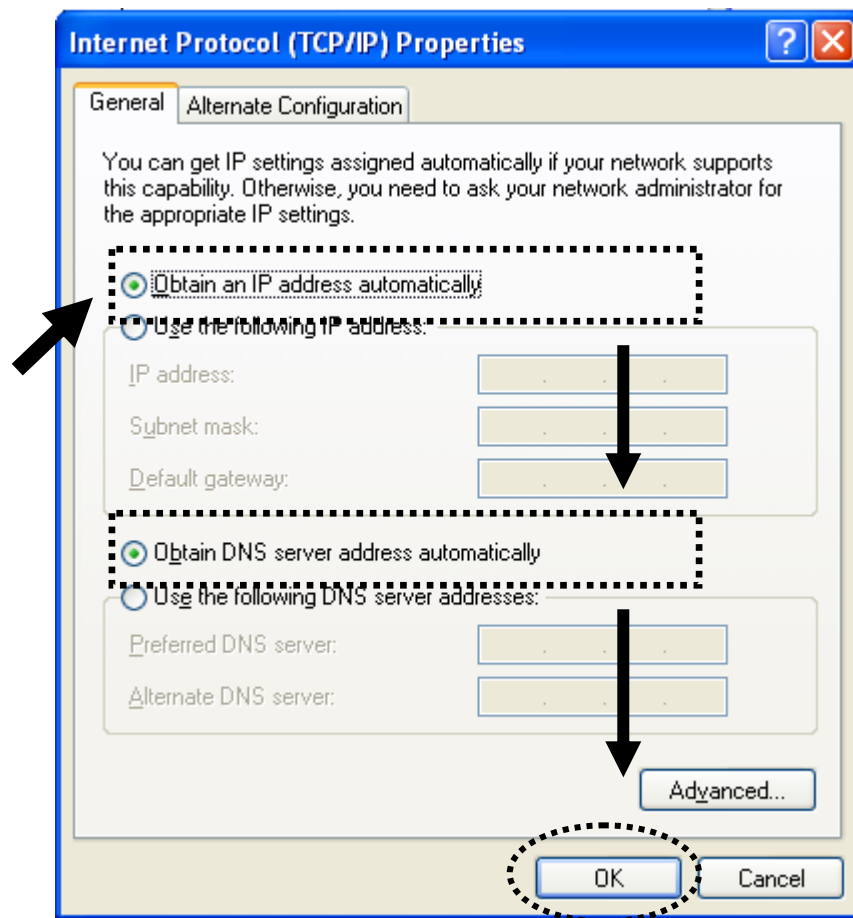


### 2-2-3 Windows XP IP address setup:

1. Click 'Start' button (it should be located at lower-left corner of your computer), then click control panel. Double-click **Network and Internet Connections** icon, click **Network Connections**, then double-click **Local Area Connection**, **Local Area Connection Status** window will appear, and then click 'Properties'

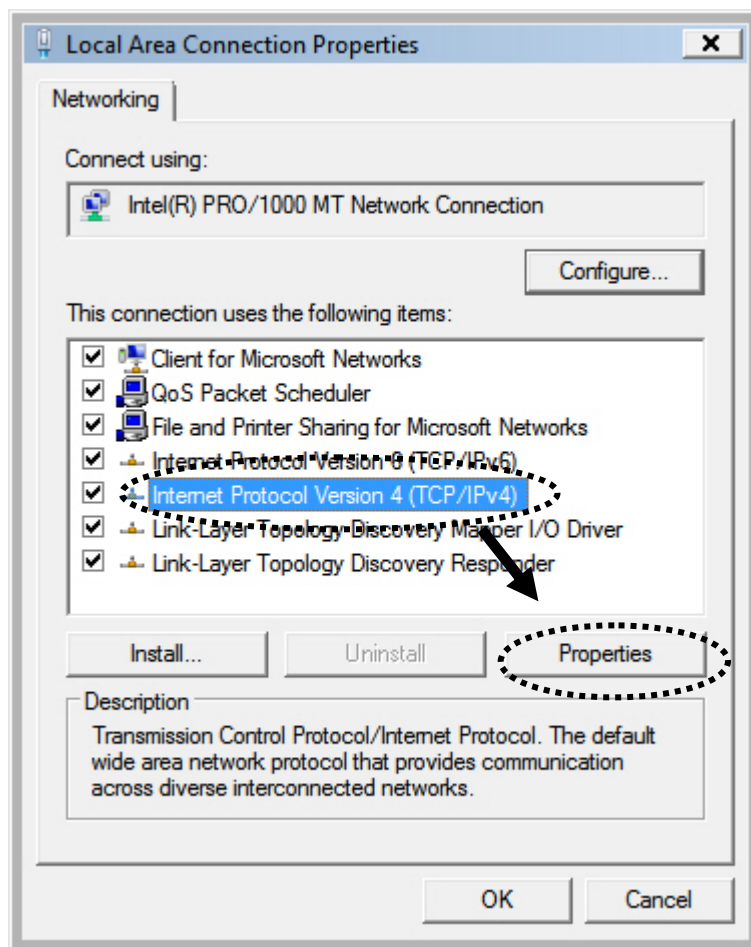


2. Select 'Obtain an IP address automatically' and 'Obtain DNS server address automatically', then click 'OK'.

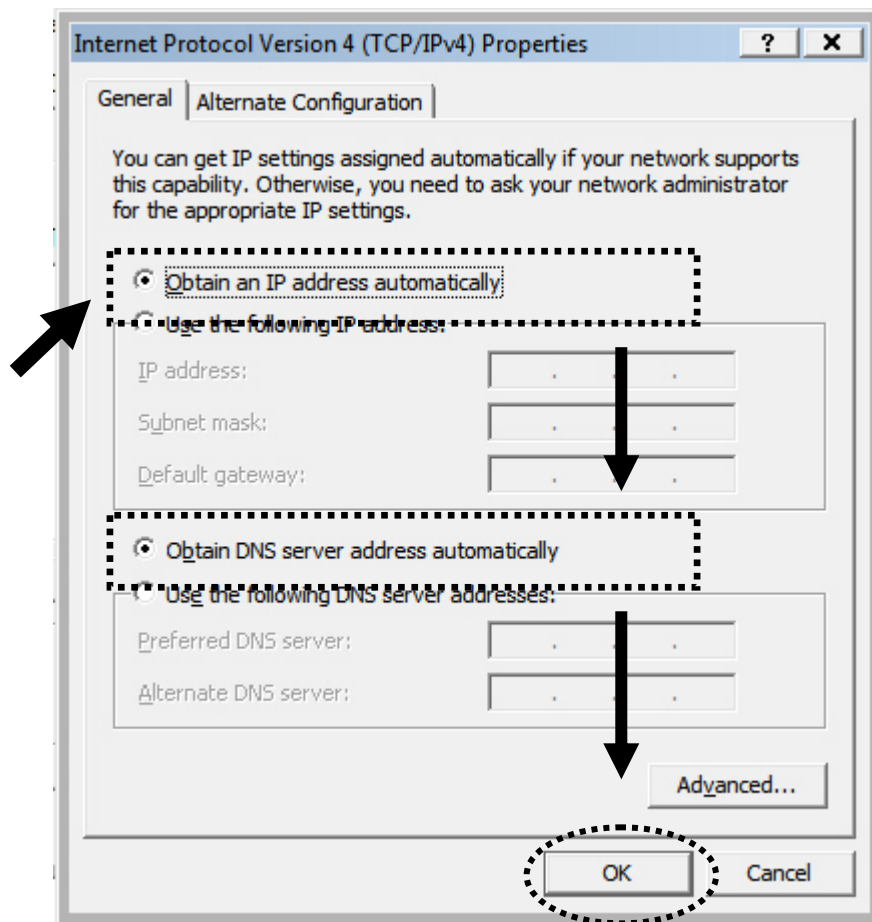


#### 2-2-4 Windows Vista IP address setup:

1. Click 'Start' button (it should be located at lower-left corner of your computer), then click control panel. Click **View Network Status and Tasks**, then click **Manage Network Connections**..Right-click **Local Area Network**, then select '**Properties**'. **Local Area Connection Properties** window will appear, select 'Internet Protocol Version 4 (TCP / IPv4)', and then click 'Properties'



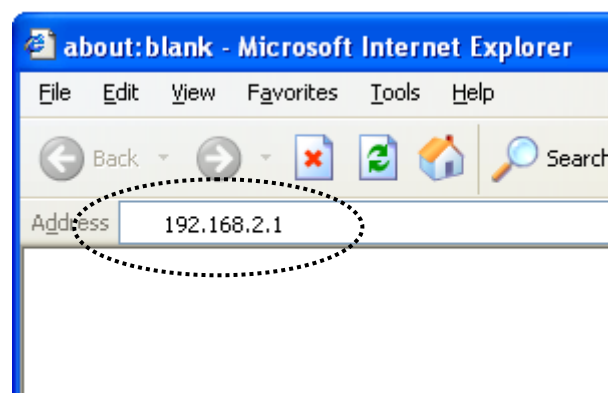
2. Select 'Obtain an IP address automatically' and 'Obtain DNS server address automatically', then click 'OK'.



## 2-3 Connect to broadband router by web browser

Default IP address of this broadband router is '192.168.2.1', and you can connect to broadband router's web-based configuration interface by any connected computer with web browser (Internet Explorer 5.x or above, Firefox, or Netscape).

Please input '192.168.2.1' in web browser's address bar and press 'Enter' key to establish connection:



You should see the following authentication window:



Please input 'admin' in 'User name' field, and '1234' in 'Password' field, and click 'OK' button to enter web configuration interface.



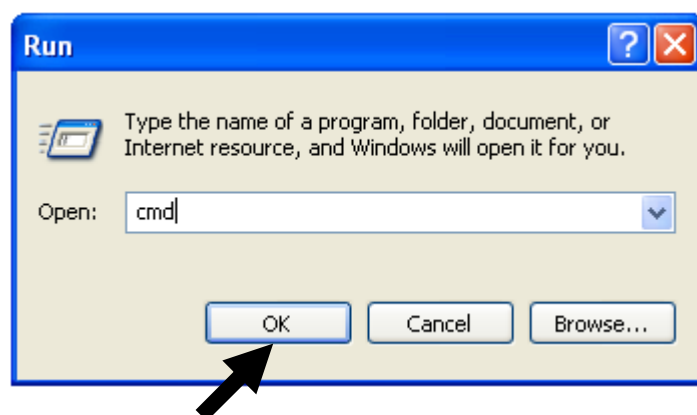
**TIPS:** If you can't establish connection with broadband router with web browser (got 'The page cannot be displayed' or similar error message), the IP address you inputted may be wrong. If you've changed the IP address of this broadband router previously, please input correct IP address instead of the default IP address '192.168.2.1'.

If the DHCP server function of this broadband router is enabled, please follow the following instructions to find out the IP address of this broadband router:

Please click 'start' -> 'run' at the bottom-lower corner of your desktop:

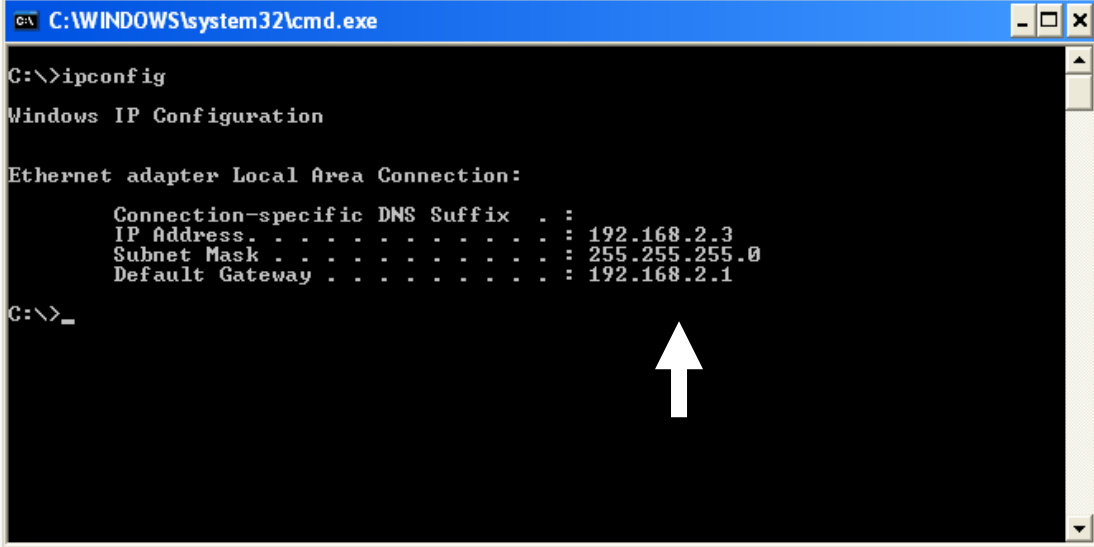


Input 'cmd', then click 'OK'





Input 'ipconfig', then press 'Enter' key. Please check the IP address followed by 'Default Gateway' (In this example, the IP address of router is 192.168.2.1, *please note that this value may be different.*)



```
C:\WINDOWS\system32\cmd.exe
C:\>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix . : 
    IP Address . . . . . : 192.168.2.3
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.2.1

C:\>_
```

**NOTE:** If the IP address of Gateway is not displayed, or the address followed by 'IP Address' begins with '169', please recheck network connection between your computer and router, and / or go to the beginning of this chapter, to recheck every step of network setup procedure.

If you tried the instructions listed above and still can not find the IP address of this broadband router / you forget the password, please jump to chapter 6-1 to reset the broadband router.

## 2-4 Using 'Quick Setup'

This broadband router provides a 'Quick Setup' menu, and you can setup basic parameters of this broadband router.

Please follow the following instructions to use 'Quick Setup' menu:

1. Click 'Quick Setup' after logged in.



2. In the first step of quick setup, you can setup automatic time synchronization settings.

<b>Set Time Zone :</b>	(GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London ▼
<b>Time Server Address :</b>	192.43.244.18
<b>Daylight Savings :</b>	<input type="checkbox"/> Enable Function Times From January ▼ 1 ▼ To January ▼ 1 ▼
<div>Apply</div> <div>Cancel</div>	

The descriptions of every setting items are listed as follow:

Item Name	Description
Time Zone	Please select a time zone of the country or region of your residence here. If you can't find the country / region of your residence here, please select a city / region which time zone is the same with the country / region of your residence.
Time Server Address	This load-balance router supports NTP (Network Time Protocol). NTP server will provide correct time for this router to setup the date and time of the router automatically. Please input the host name or IP address of NTP server here. If you don't know the host name or IP address of time server, please ask network administrator or use 'pool.ntp.org' as time server.
Daylight Savings	If the country / region of your residence use daylight saving time, please check 'Enable Function' box, and select the beginning and ending date of daylight time saving.

After you finish with time zone settings, please click 'Next' to proceed to next step of quick setup - broadband type:

**Note :** The default setting is for you to connect with computer or switch to extend network. If you would like to access Internet via xDSL/Cable modem, you can login 3G-6200nL to enable WAN function.

2:14:30 IP:192.168.2.1 V2.10 Running Time 0day:02:14:34

**EDIMAX**  
NETWORKING PEOPLE TOGETHER

Quick Setup | General Setup | Status | Tools | Language | Home

Home / Quick Setup - Time Zone / Quick Setup - WAN

<input type="radio"/>	<b>3G/3.5G</b>	Enter the User Name, Password, APN, PIN Code and Dialed Number provided to you by your service provider in the appropriate fields.
<input checked="" type="radio"/>	<b>Dynamic IP</b>	The Host Name is optional, but may be required by some Service Providers. The default MAC Address is set to the WAN physical interface on the Broadband router. If required by your Service Provider, you can use the 'Clone MAC Address' button to copy the MAC Address of the Network Interface Card installed in your PC and replace the WAN MAC Address with this MAC Address.
<input type="radio"/>	<b>Static IP</b>	If your Service Provider has assigned a Fixed IP address; enter the assigned IP Address, Subnet Mask and the Gateway IP Address provided.
<input type="radio"/>	<b>PPPoE</b>	Enter the PPPoE User Name and Password assigned by your Service Provider. The Service Name is normally optional, but may be required by some Service Providers. Enter a Idle Time (in minutes) to define a maximum period of time for which the Internet connection is maintained during inactivity. If the connection is inactive for longer than the Maximum Idle Time, then the connection will be dropped. You can enable the Connect on Demand option to automatically re-establish the connection as soon as you attempt to access the Internet again. If your Internet Service Provider requires the use of PPPoE, enter the information below.
<input type="radio"/>	<b>PPTP</b>	Point-to-Point Tunneling Protocol is a common connection method used in xDSL connections.
<input type="radio"/>	<b>L2TP</b>	Layer Two Tunneling Protocol is a common connection method used in xDSL connections.
<input type="radio"/>	<b>Telstra Big Pond</b>	If your Internet service is provided by Telstra Big Pond in Australia, you will need to enter your information below. This information is provided by Teistra BigPond.

Back Next

Please choose the broadband (Internet connection) type you're using in this page. There are six types of Internet connection, they are:

- |               |                              |
|---------------|------------------------------|
| 3G/3.5G       | - Please go to section 2-4-1 |
| Dynamic IP    | - Please go to section 2-4-2 |
| Fixed-IP xDSL | - Please go to section 2-4-3 |
| PPPoE xDSL    | - Please go to section 2-4-4 |
| PPTP xDSL     | - Please go to section 2-4-5 |
| L2TP xDSL     | - Please go to section 2-4-6 |

If you're not sure, please contact your Internet service provider. A wrong Internet connection type will cause connection problem, and you will not be able to connect to internet.

If you want to go back to previous step, please press 'Back' button on the bottom of this page.

**NOTE: Some service providers use 'DHCP' (Dynamic Host Configuration Protocol) to assign IP address to you. In this case, you can choose 'Cable Modem' as Internet connection type, even you're using another connection type, like xDSL. Also, some cable modem uses PPPoE, so you can choose 'PPPoE xDSL' for such cable modem connection, even you're using a cable modem.**

## 2-4-1 3G/3.5G

3G-6200nL supports most of 3G/3.5G modem cards, just connect the modem card to the USB port of 3G-6200nL and 3G-6200nL will recognize it automatically, no additional setup procedure required. However, some of modem cards require PIN code or account / password (you have to use 3G-6200nL's web interface to input these information), and some modem cards requires you to connect the modem card with your PC and install driver / utility before you connect it with 3G-6200nL (all PCs which need to access Internet by 3G-6200nL requires to perform this procedure once). If you still not able to connect to Internet, please use wired Internet connection to access our website :

<http://www.edimax.com/> , download latest version of firmware and upgrade 3G-6200nL's firmware. If you still not be able to get connected by your 3G/3.5G modem card, please contact your dealer of purchase and provide the model name of the 3G/3.5G modem card you have, we'll try our best to help you to solve the problem.

Only one Internet connection (wireless / wired) can be used at the same time. Wireless connection (3G/3.5G) will be selected first, and use wired Internet connection as backup. **Therefore, please DO NOT connect your 3G/3.5G modem card with 3G-6200nL, or your telecomm service provider may charge you with high communication fee. The default setting is for you to connect with computer or switch to extend network. If you would like to access Internet via xDSL/Cable modem, you can login 3G-6200nL to enable WAN function.** For example, if you connect 3G/3.5G modem card with 3G-6200nL when you're using wired Internet connection, wired connection will be dropped and use 3G/3.5G wireless connection instead. If 3G/3.5G wireless signal reception is poor and the connection can not be restored within 60 seconds, 3G-6200nL will use wired Internet connection again, and will not switch back to wireless Internet connection (This only happens with wired Internet connection is available. If wired connection is unavailable, 3G-6200nL will try to establish 3G/3.5G wireless connection again and again). If you want to use 3G/3.5G wireless connection again, you need to remove 3G/3.5G modem card from 3G-6200nL and reconnect it back after 5 seconds.

( A ) Plug and play, no setup procedure required.

Connect the USB 3G/3.5G modem card with 3G-6200nL and make sure the corresponding USB LED indicator of 3G-6200nL lights up, then you can use the web browser to access Internet.



( B ) PIN code or user name / password required:

Please check the authentication method you want to use. Most of telecomm service providers require you to input PIN Code, please check 'SIM' and input the PIN code provided by telecomm service provider. Most of options listed here are optional and you don't have to provide those information if telecomm service provider doesn't provide you with those information.

If telecomm provider provides you with username / password, please check /User Name / Password box and input the user name / password provided by telecomm service provider, then click 'OK' button. Wait for 1 minute (for 3G-6200nL to reboot), then you can access Internet.

2:20:10 IP:192.168.2.1 V2.10 Running Time 0day:02:20:14

EDIMAX  
NETWORKING PEOPLE TOGETHER

Quick Setup | General Setup | Status | Tools | Language | Home

Home / Quick Setup - Time Zone / Quick Setup - WAN / Quick Setup - 3G/3.5G

PIN Code :	<input type="text"/>
APN :	<input type="text"/>
User Name :	<input type="text"/>
Password :	<input type="text"/>
Verify Password :	<input type="text"/>
Service :	3G/3.5G Only (UMTS/HSPA/HSDPA) ▼
AT Dial Script :	<input type="text"/>
Connection Type :	Disconnected <input type="button" value="Connect"/> <input type="button" value="Disconnect"/>

Note: Please select "CDMA", if your ISP provide 3G CDMA system.

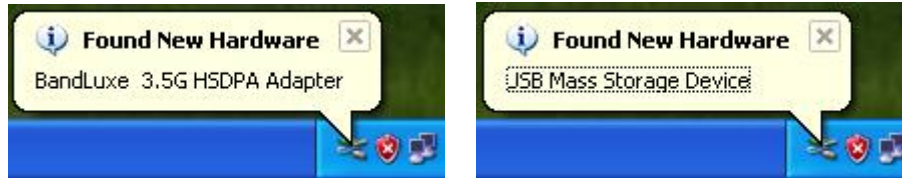
( C ) Driver / Utility required on PC side

Some 3G/3.5G modem card does not work with instructions (A) or (B) listed above (ex. BandLuxe C100S). You need to install 3G/3.5G modem card driver / utility on every PC which needs to access Internet first. After driver / utility installation is complete, every PC will be able to access Internet via 3G/6200nL.

1. Plug in the BandLuxe C100S modem card to the USB port of your

computer.

2. The system will detect the hardware of C100S USB adapter and also the storage inside the adapter.

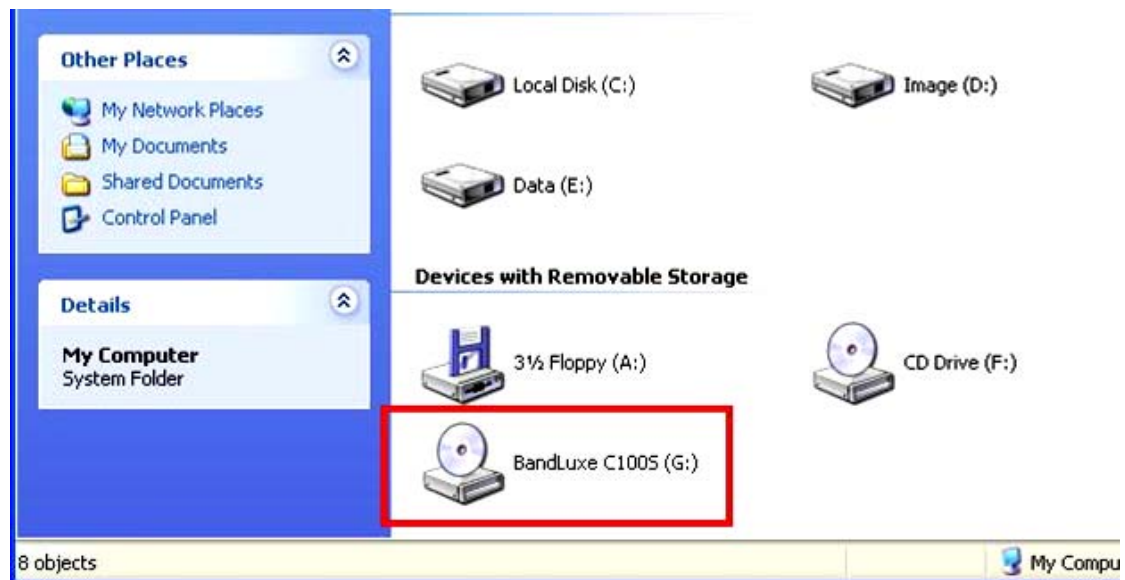


3. Please click "Cancel" to ignore the message of the found new hardware wizard.

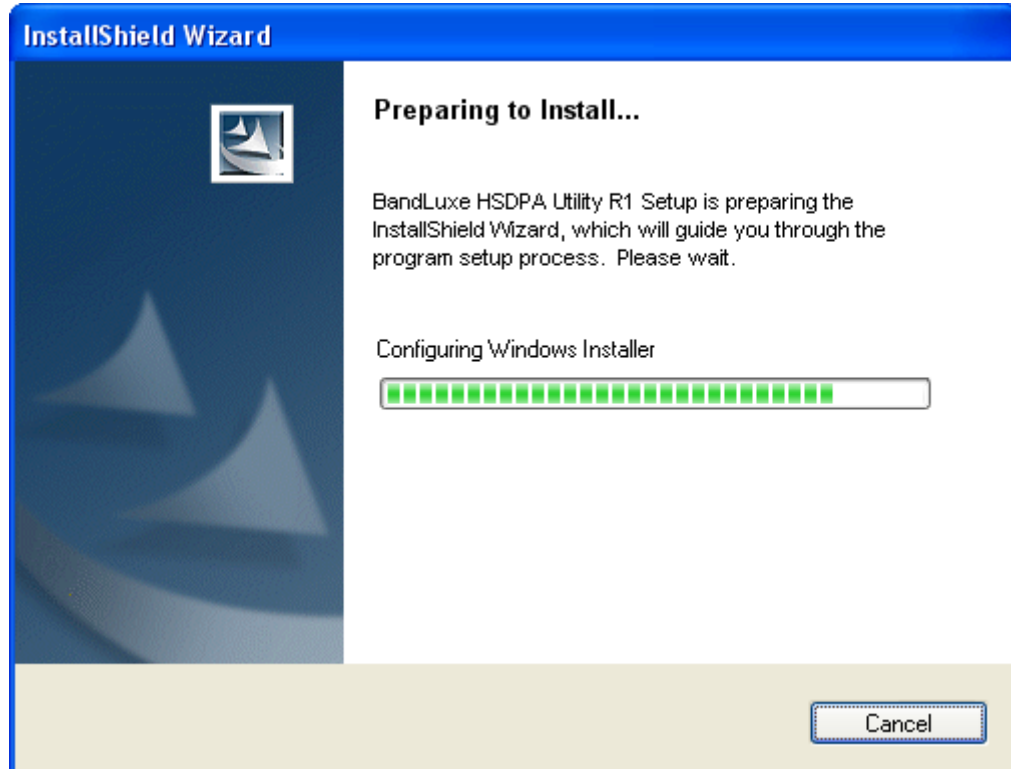




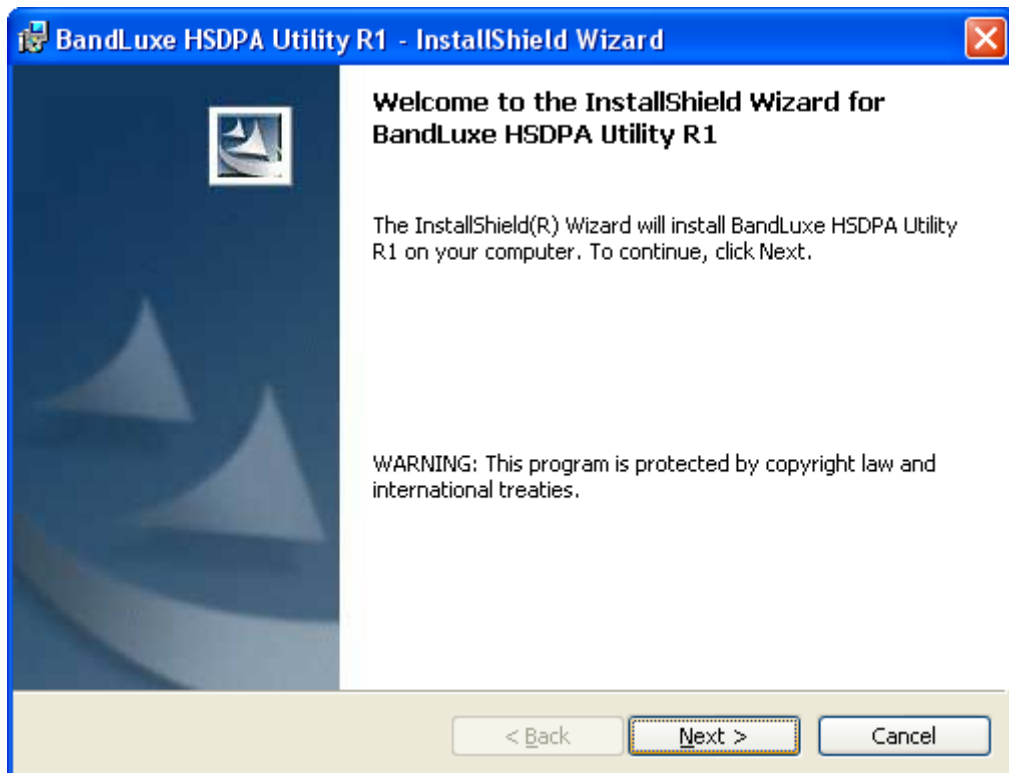
4. Please go to “My computer”, you will see the BandLuxe C100S. Double click the device.



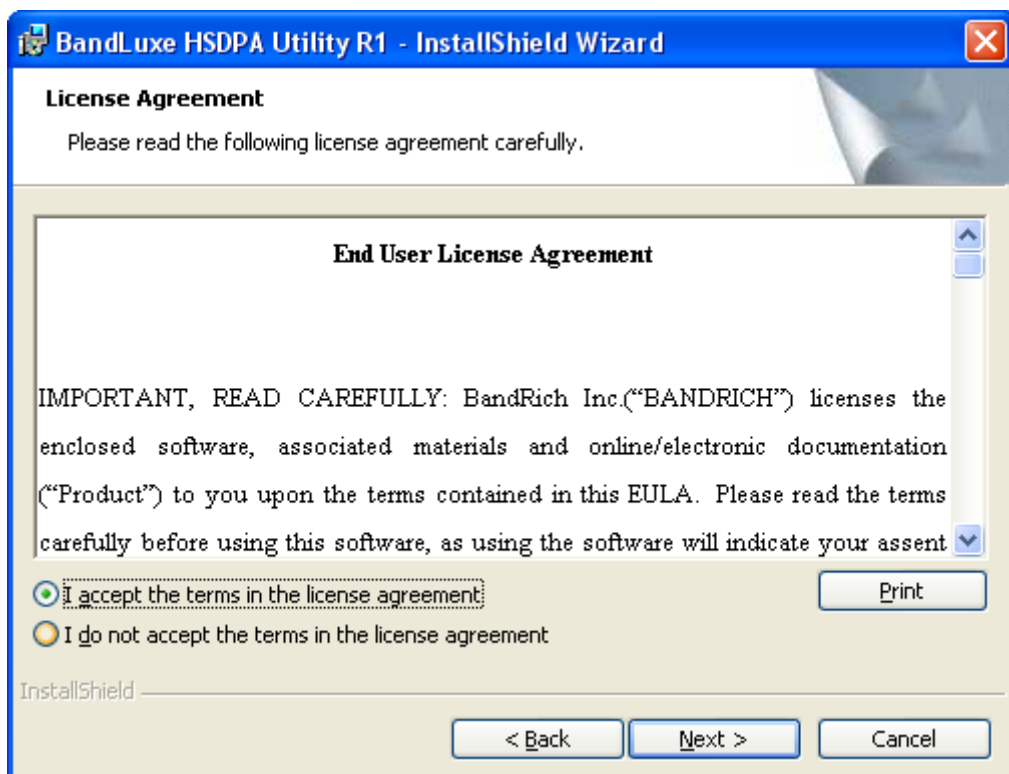
5. The program inside the adapter will prepare to install the driver and utility of the adapter.



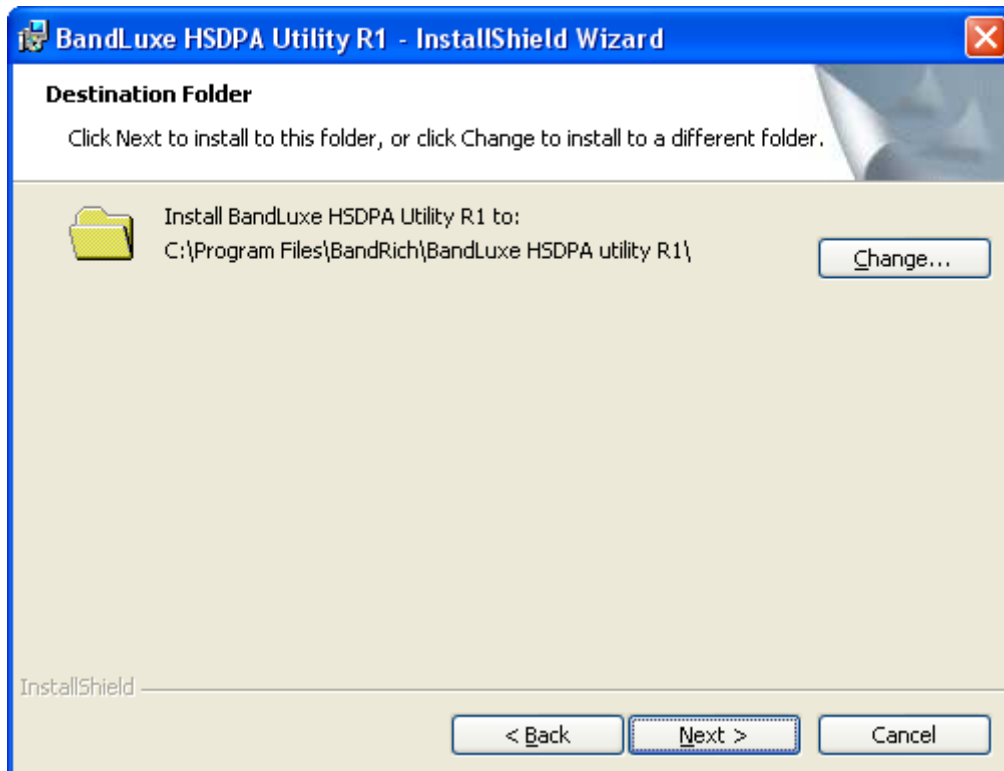
6. Click “Next”.



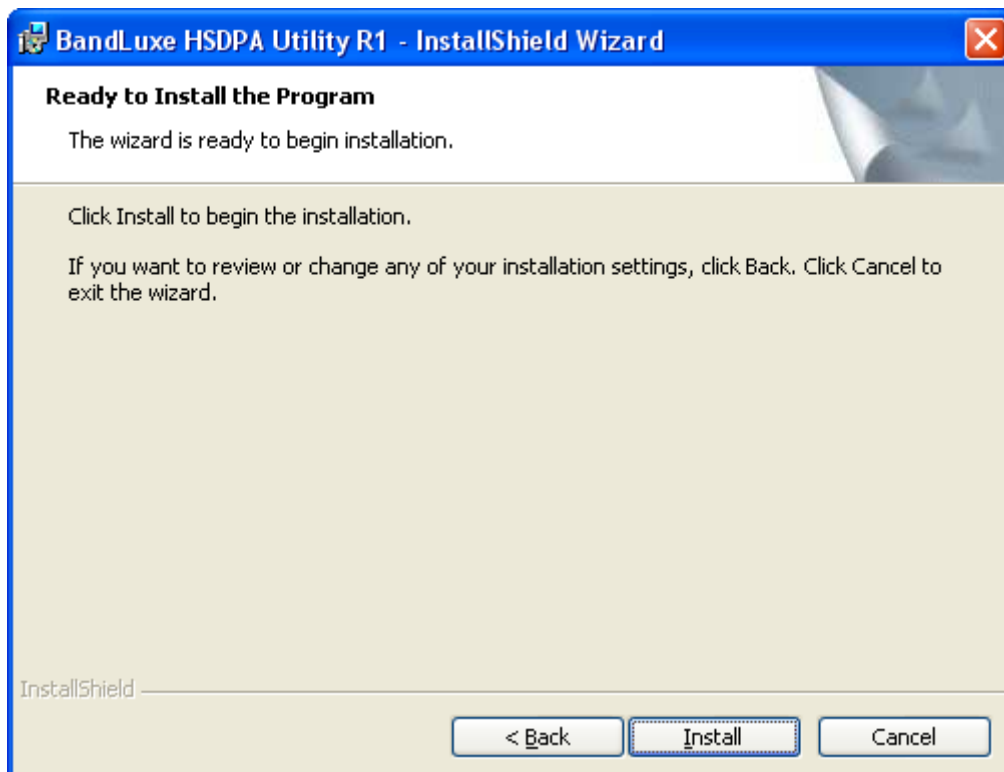
7. Select “I accept the terms in the license agreement” and click “Next”.



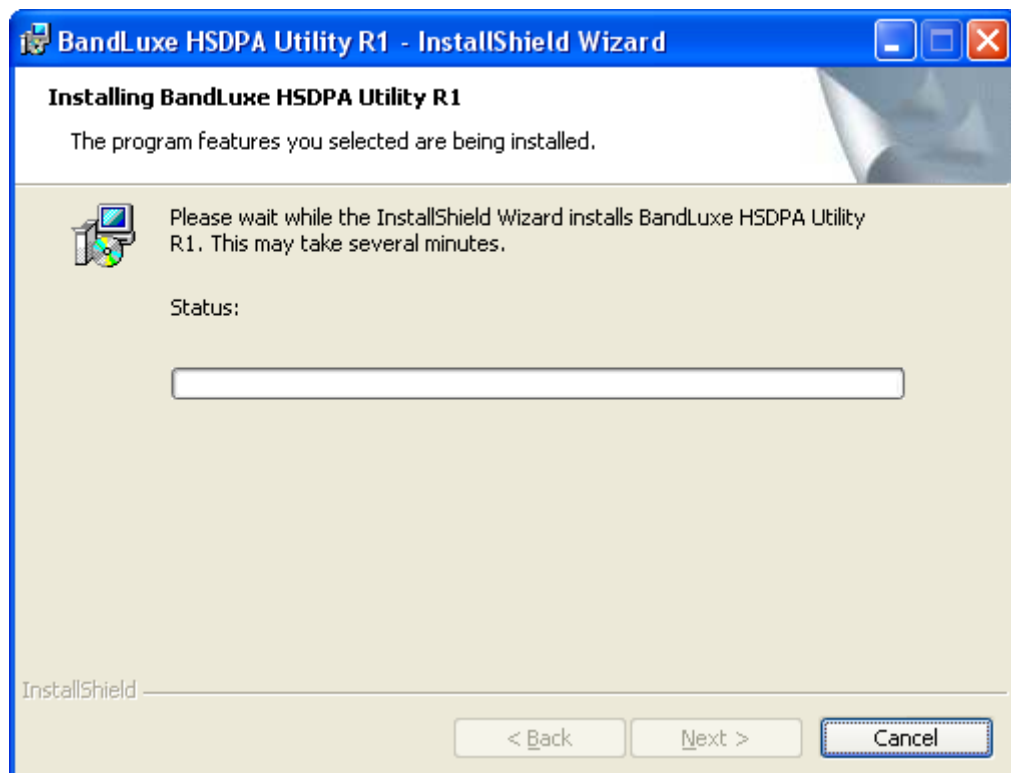
8. If you want to change the destination folder, please click “Change”. Click “Next” to continue.



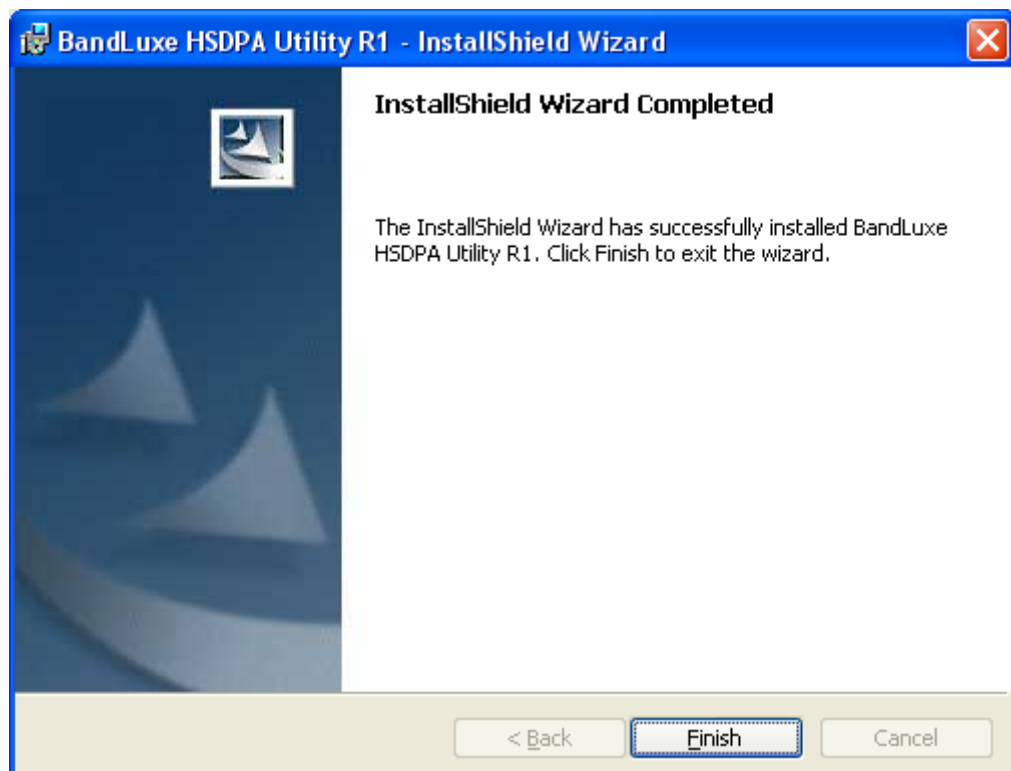
9. Click “install”.



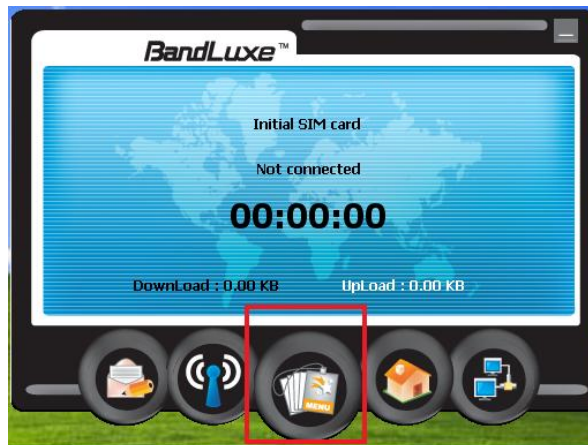
10. The system is installing the driver and utility of the adapter.



11. Install successfully, click “Finish” to close the install wizard.



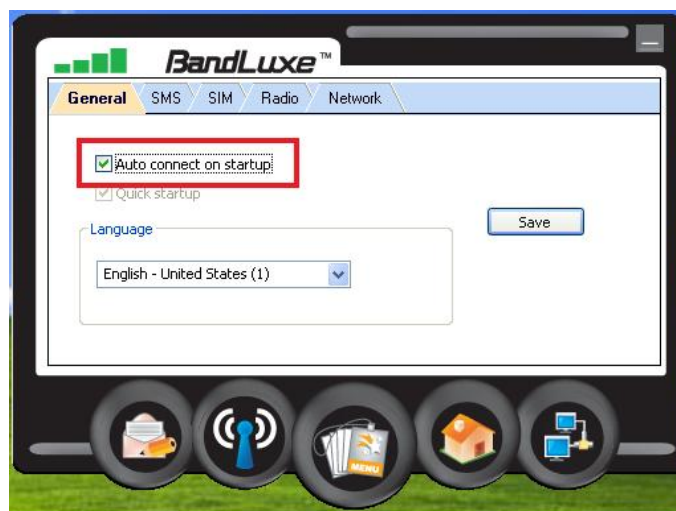
12. The utility of C100S will start up automatically.  
Please select the "MENU"



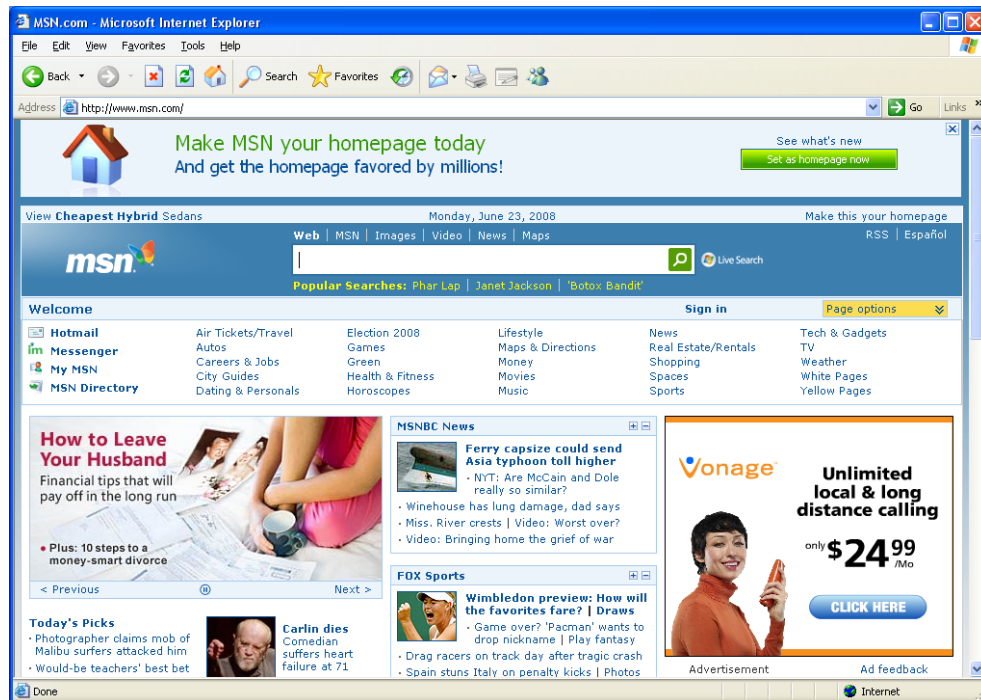
13. Click "Setting".



14. Select the "Auto connect on startup".



15. Plug in the C100S into the USB port of the 3G router.
16. The USB adapter will get the IP address from ISP automatically.  
You can check the Status of the 3G-6200nL on the Web site (ex: 192.168.2.1).
17. Now you are able to connect to Internet successfully.



Note : If your SIM card requires entering the PIN code, please enter into the web management of the 3G router. In WAN setting web page, select 3G/3.5G. Enter the PIN code of the adapter.

## 2-4-2 Using 'Dynamic IP' as broadband connection type

If your Internet service provider uses cable modem to provide Internet service to you, you can select this connection type. You can also select this connection type if your ISP tells you that they will assign you the IP address by 'DHCP' (Dynamic Host Configuration Protocol).

The screenshot shows a network configuration window with the following fields and options:

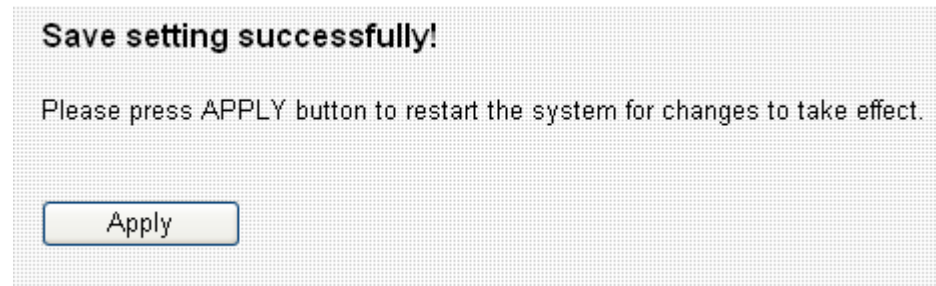
- Host Name :** A text input field.
- MAC address :** A text input field containing "000000000000" and a "Clone Mac address" button.
- DNS address :** Two radio buttons: "Obtain an IP address automatically" (selected) and "Use the following IP address".
- DNS1 address :** A text input field containing "0.0.0.0".
- DNS2 address :** A text input field containing "0.0.0.0".
- TTL :** Two radio buttons: "Disable" (selected) and "Enable".

At the bottom right, there are "Back" and "OK" buttons.

Here are descriptions of every setup items:

Item Name	Description
<i>Host Name</i>	<i>Please input the host name of your computer, this is optional, and only required if your service provider asks you to do so.</i>
<i>MAC address</i>	<i>Please input MAC address of your computer here, if your service provider only permits computer with certain MAC address to access internet. If you're using the computer which used to connect to Internet via cable modem, you can simply press 'Clone Mac address' button to fill the MAC address field with the MAC address of your computer.</i>
<i>DNS Address</i>	<i>If your ISP provided you DNS address, please input the DNS IP address here.</i>
<i>TTL</i>	<i>Time-to-live (TTL) is a value in an Internet Protocol packet that tells a network router whether or not the packet has been in the network too long and should be discarded.</i>

If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.



### 2-4-3 Using 'Fixed-IP xDSL' as broadband connection type

If your ISP requires you to set a fixed IP address to establish connection, you can use this connection type to input the IP address information assigned by your ISP.

Please note that not only xDSL connections (like ADSL, HDSL, VDSL) can use this connection type, you can select this connection type for all connections that requires you to input a fixed IP address. Also, if your ISP is assigning a fixed IP address to you by DHCP or PPPoE, do not select this connection type. Please contact your ISP's service hotline to make sure you really need to use static IP as connection type.

Fixed IP Address : 172.1.1.1

Subnet Mask : 255.255.0.0

DNS address 1: 168.95.1.1

DNS address 2:

Default Gateway Address : 172.1.1.254

TTL : ☒ Disable ☐ Enable

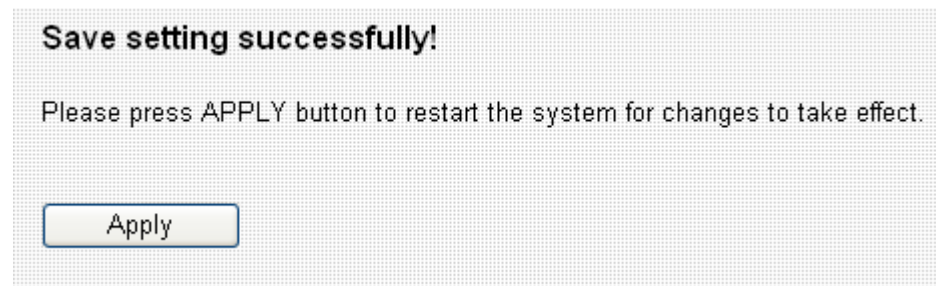
Back OK

Here are descriptions of every setup items:

Item Name	Description
<i>IP address assigned by your by your service provider</i>	<i>Please input IP address assigned by your service provider.</i>
<i>Subnet Mask</i>	<i>Please input subnet mask assigned by your service provider.</i>
<i>DNS address</i>	<i>Please input the IP address of DNS server provided by your service provider.</i>
<i>Service Provider Gateway Address</i>	<i>Please input the IP address of DNS server provided by your service provider.</i>
<i>TTL</i>	<i>Time-to-live (TTL) is a value in an Internet Protocol packet that tells a network router whether or not the packet has been in the network too long and should be discarded.</i>

**You must use the addresses provided by your Internet service provider, wrong setting value will cause connection problem.**

If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

#### 2-4-4 Using 'PPPoE xDSL' as broadband connection type

If your ISP requires you to establish Internet connection by PPPoE (Point-to-Point Protocol over Ethernet), you can use this connection type to establish Internet connection.

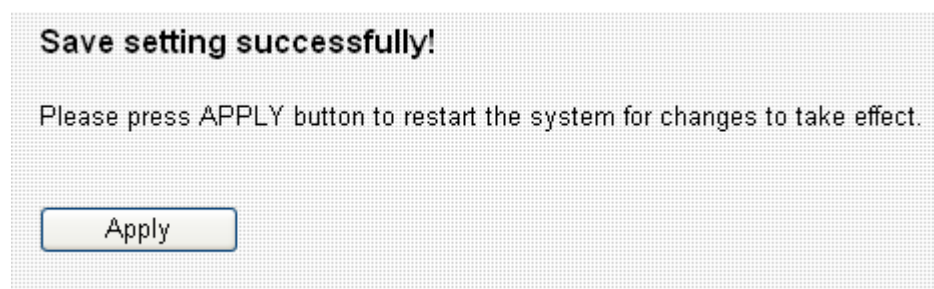
User Name :	<input type="text"/>
Password :	<input type="password"/>
DNS address :	<input checked="" type="radio"/> Obtain an IP address automatically <input type="radio"/> Use the following IP address
DNS1 address :	<input type="text" value="0.0.0.0"/>
DNS2 address :	<input type="text" value="0.0.0.0"/>
Service Name :	<input type="text"/>
MTU :	<input type="text" value="1392"/> (512<=MTU Value<=1492)
Connection Type :	<input type="text" value="Continuous"/> <input type="button" value="Connect"/> <input type="button" value="Disconnect"/>
Idle Time Out :	<input type="text" value="10"/> (1-1000 minutes)
TTL :	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
<input type="button" value="Back"/> <input type="button" value="OK"/>	

Here are descriptions of every setup items:

Item Name	Description
User Name	Please input user name assigned by your Internet service provider here.
Password	Please input the password assigned by your Internet service provider here.
DNS address	Please input the IP address of DNS server provided by your service provider.
Service Name	Please give a name to this Internet service, this is optional.
MTU	Please input the MTU value of your network connection here. If you don't know, you can use default value.
Connection Type	Please select the connection type of Internet

	<p><i>connection you wish to use. There are 3 options:</i></p> <p><i>‘Continuous’ - keep internet connection alive, do not disconnect.</i></p> <p><i>‘Connect on Demand’ - only connects to Internet when there’s a connect attempt,</i></p> <p><i>Manual - only connects to Internet when ‘Connect’ button on this page is pressed, and disconnects when ‘Disconnect button is pressed.</i></p>
<i>Idle Time Out</i>	<i>Please specify the time to shutdown internet connect after no internet activity is detected in minute(s). This option is only available when connection type is ‘Connect on Demand’.</i>
<i>TTL</i>	<i>Time-to-live (TTL) is a value in an Internet Protocol packet that tells a network router whether or not the packet has been in the network too long and should be discarded.</i>

If you wish to select another connection type as broadband connection type, click ‘Back’; or you can click ‘OK’ to finish with quick setup. You’ll see the following messages:



Please click ‘Apply’ to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

## 2-4-5 Using 'PPTP xDSL' as broadband connection type

If your ISP requires you to use PPTP (Point-to-Point Tunneling Protocol) to establish connection, you can select this connection type to establish Internet connection.

PPTP xDSL requires two kinds of setting: WAN interface setting (setup IP address) and PPTP setting (PPTP user name and password). Here we start from WAN interface setting first:

<input checked="" type="radio"/> Obtain an IP address automatically :	
Host Name :	<input type="text"/>
MAC address :	<input type="text" value="000000000000"/> <input type="button" value="Clone Mac address"/>
<input type="radio"/> Use the following IP address :	
IP address :	<input type="text" value="0.0.0.0"/>
Subnet Mask :	<input type="text" value="0.0.0.0"/>
Default Gateway :	<input type="text" value="0.0.0.0"/>
<input checked="" type="radio"/> Obtain an IP address automatically	
<input type="radio"/> Use the following IP address	
DNS1 address :	<input type="text" value="0.0.0.0"/>
DNS2 address :	<input type="text" value="0.0.0.0"/>
<b>• PPTP Settings</b>	
User ID :	<input type="text"/>
Password :	<input type="text"/>
PPTP Gateway :	<input type="text"/>
Connection ID :	<input type="text"/> (Optional)
MTU :	<input type="text" value="0"/> (512<=MTU Value<=1492)
BEZEQ-ISRAEL :	<input type="checkbox"/> Enable (for BEZEQ network in ISRAEL use only)
Connection Type :	<input type="text" value="Continuous"/> <input type="button" value="Connect"/> <input type="button" value="Disconnect"/>
Idle Time Out :	<input type="text" value="0"/> (1-1000 minutes)
<input type="button" value="Back"/> <input type="button" value="OK"/>	

Select the type of how you obtain IP address from your service provider here. You can choose 'Obtain an IP address automatically' (equal to

DHCP, please refer to ‘Cable Modem’ section above), or ‘Use the following IP address’ (i.e. static IP address).

WAN interface settings must be correctly set, or the Internet connection will fail even those settings of PPTP settings are correct. Please contact your Internet service provider if you don’t know what you should fill in these fields.

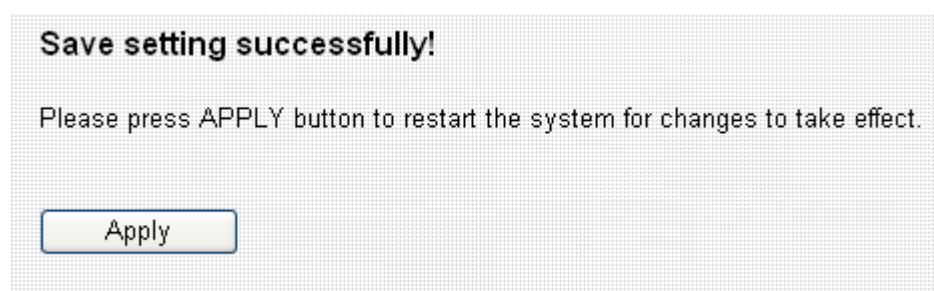
Now please go to PPTP settings section:

Here are descriptions of every setup items:

Item Name	Description
<i>DNS address</i>	<i>Please input the IP address of DNS server provided by your service provider.</i>
<i>User ID</i>	<i>Please input user ID (user name) assigned by your Internet service provider here.</i>
<i>Password</i>	<i>Please input the password assigned by your Internet service provider here.</i>
<i>PPTP Gateway</i>	<i>Please input the IP address of PPTP gateway assigned by your Internet service provider here.</i>
<i>Connection ID</i>	<i>Please input the connection ID here, this is optional and you can leave it blank.</i>
<i>MTU</i>	<i>Please input the MTU value of your network connection here. If you don’t know, you can use default value.</i>
<i>BEZEQ-ISRAEL</i>	<i>Check ‘Enable’ box if you’re using BEZEQ network service in Israel. Do not check this box if you’re using other Internet service provider.</i>
<i>Connection Type</i>	<i>Please select the connection type of Internet connection you wish to use. There are 3 options:</i>  <i>‘Continuous’ - keep internet connection alive, do not disconnect.</i>  <i>‘Connect on Demand’ - only connects to Internet when there’s a connect attempt,</i>

	<i>Manual - only connects to Internet when 'Connect' button on this page is pressed, and disconnects when 'Disconnect button is pressed.</i>
<i>Idle Time Out</i>	<i>Please specify the time to shutdown internet connect after no internet activity is detected in minute(s). This option is only available when connection type is 'Connect on Demand'.</i>

If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

## 2-4-6 Using 'L2TP xDSL' as broadband connection type

If your ISP requires you to use L2TP (Layer-2 Tunneling Protocol) to establish connection, you can select this connection type to establish Internet connection. L2TP is another popular connection method for xDSL and other Internet connection types, and all required setting items are the same with PPTP connection.

Like PPTP, there are two kinds of required setting, we'll start from 'WAN Interface Settings':

<input checked="" type="radio"/> Obtain an IP address automatically :	
Host Name :	<input type="text"/>
MAC address :	<input type="text" value="000000000000"/> <input type="button" value="Clone Mac address"/>
<input type="radio"/> Use the following IP address :	
IP address :	<input type="text" value="0.0.0.0"/>
Subnet Mask :	<input type="text" value="0.0.0.0"/>
Default Gateway :	<input type="text" value="0.0.0.0"/>
<input checked="" type="radio"/> Obtain an IP address automatically	
<input type="radio"/> Use the following IP address	
DNS1 address :	<input type="text" value="0.0.0.0"/>
DNS2 address :	<input type="text" value="0.0.0.0"/>
<b>• L2TP Settings</b>	
User ID :	<input type="text"/>
Password :	<input type="text"/>
L2TP Gateway :	<input type="text"/>
MTU :	<input type="text" value="0"/> (512<=MTU Value<=1492)
Connection Type :	<input type="text" value="Continuous"/> <input type="button" value="Connect"/> <input type="button" value="Disconnect"/>
Idle Time Out :	<input type="text" value="0"/> (1-1000 minutes)
<input type="button" value="Back"/> <input type="button" value="OK"/>	

Please select the type of how you obtain IP address from your service provider here. You can choose 'Obtain an IP address automatically' (equal to DHCP, please refer to 'Cable Modem' section above), or 'Use the



following IP address' (equal to static IP address, please refer to 'PPPoE xDSL' section above).

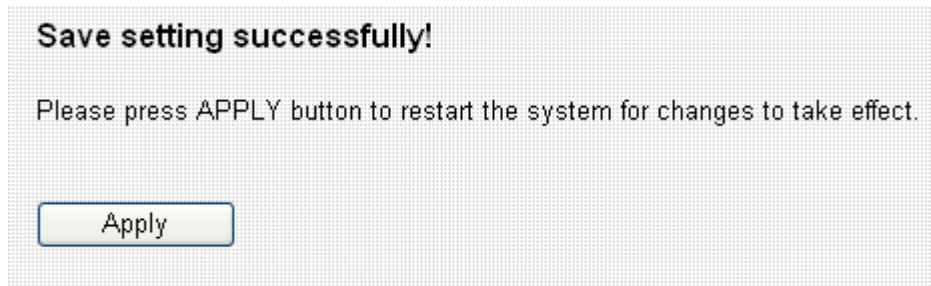
WAN interface settings must be correctly set, or the Internet connection will fail even those settings of L2TP settings are correct. Please contact your Internet service provider if you don't know what you should fill in these fields.

Now please go to L2TP settings section:  
Here are descriptions of every setup items:

Item Name	Description
<i>User ID</i>	<i>Please input user ID (user name) assigned by your Internet service provider here.</i>
<i>Password</i>	<i>Please input the password assigned by your Internet service provider here.</i>
<i>L2TP Gateway</i>	<i>Please input the IP address of L2TP gateway assigned by your Internet service provider here.</i>
<i>MTU</i>	<i>Please input the MTU value of your network connection here. If you don't know, you can use default value.</i>
<i>Connection Type</i>	<i>Please select the connection type of Internet connection you wish to use. There are 3 options:</i>  <i>'Continuous' - keep internet connection alive, do not disconnect.</i>  <i>'Connect on Demand' - only connects to Internet when there's a connect attempt,</i>  <i>Manual - only connects to Internet when 'Connect' button on this page is pressed, and disconnects when 'Disconnect button is pressed.</i>
<i>Idle Time Out</i>	<i>Please specify the time to shutdown internet connect after no internet activity is detected in</i>

	<i>minute(s). This option is only available when connection type is 'Connect on Demand'.</i>
--	--

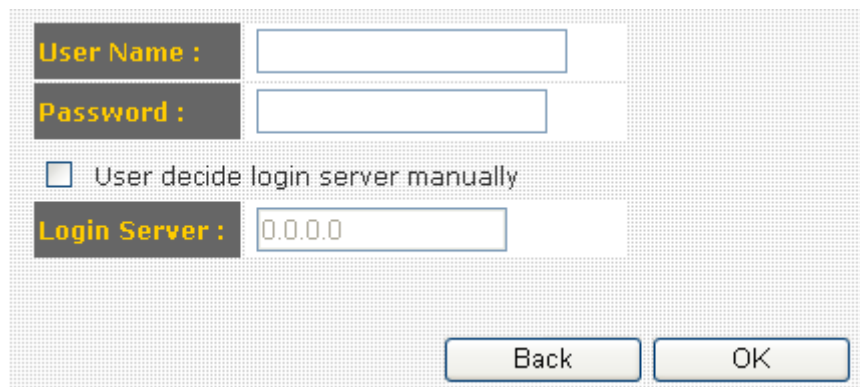
If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

## 2-4-7 Using 'Telstra Big Pond' as broadband connection type

This connection type only works for Telstra big pond network service in Australia. DO NOT select this connection type if you're not using Telstra big pond network service.



User Name :

Password :

☐ User decide login server manually

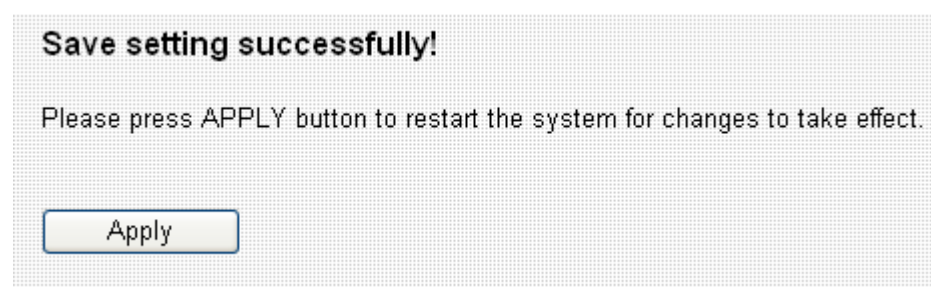
Login Server :

Back OK

Here are descriptions of every setup items:

Item Name	Description
User Name	Please input the user name assigned by Telstra.
Password	Please input the password assigned by Telstra.
User device login server manually	Check this box to choose login server by yourself.
Login Server	Please input the IP address of login server here.

If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:



**Save setting successfully!**

Please press APPLY button to restart the system for changes to take effect.

Apply

Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

## Chapter III: General Setup

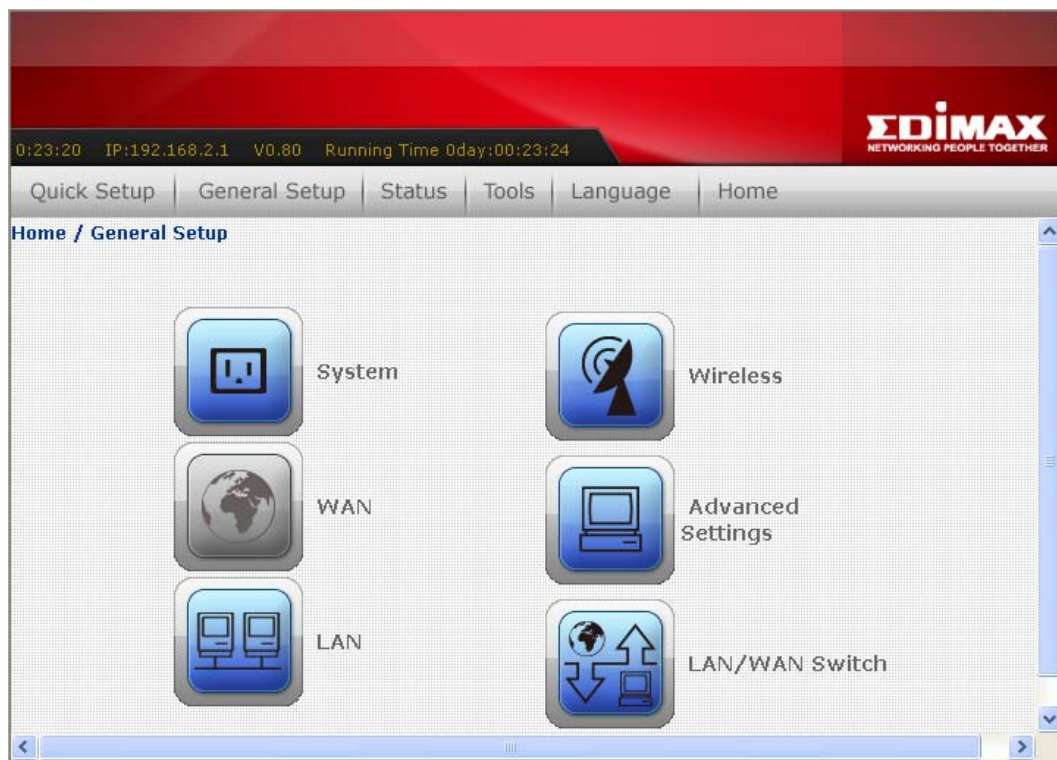
The ‘General Setup’ is for you to setup “System, WAN, LAN, Wireless, and others ( Advanced settings ) “.

Please follow the following instructions to use ‘General Setup’ menu:

1. Click ‘General Setup’ after logged in.



2. Five submenus will appear:



System - Basic system settings

WAN - [Setup WAN port manually](#) , default setting is disable. If you

[would like enable this function. Please click button as follows.](#)



LAN - Setup LAN port manually

Wireless - Setup wireless interface manually

Advanced Settings - Setup advanced settings of this broadband router

LAN/WAN Switch- For you to switch type of Ethernet port

## 3-1 System

You can setup basic system settings of this broadband router in 'System' menu:

<input type="radio"/>	<b>Time Zone</b>	Set the time zone of the Broadband router. This information is used for log entries and firewall settings.
<input type="radio"/>	<b>Password Settings</b>	By default, the router's password is 1234. This function allows you to change the router's password. This password can contain 0 to 30 alphanumeric characters and is case sensitive.
<input type="radio"/>	<b>Remote Management</b>	The remote management function allows you to designate a host in the Internet to have management/configuration access to the Broadband router from a remote site. Enter the designated host IP Address in the Host IP Address field.

Please select the setting item you wish to set, then click 'Apply' button to proceed. You can also click 'Previous' button to back to 'System' menu.

### 3-1-1 Time Zone

You can change the time zone settings of this broadband router. It's important to have correct date and time setting if you need to read system log and use build-in firewall functions.

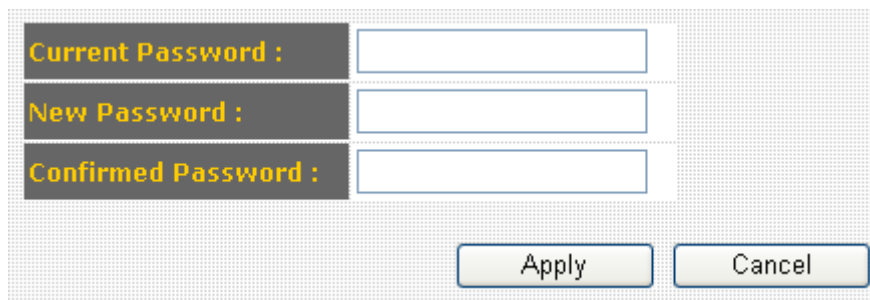
<b>Set Time Zone :</b>	(GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London <input type="button" value="v"/>
<b>Time Server Address :</b>	<input type="text" value="192.43.244.18"/>
<b>Daylight Savings :</b>	<input type="checkbox"/> Enable Function Times From <input type="text" value="January"/> <input type="button" value="v"/> 1 <input type="button" value="v"/> To <input type="text" value="January"/> <input type="button" value="v"/> 1 <input type="button" value="v"/>

The descriptions of every setting item are listed as follow:

Item Name	Description
Time Zone	Please select a time zone of the country or region of your residence here. If you can't find the country / region of your residence here, please select a city / region which time zone is the same with the country / region of your residence.
Time Server Address	This load-balance router supports NTP (Network Time Protocol). NTP server will provide correct time for this router to setup the date and time of the router automatically. Please input the host name or IP address of NTP server here. If you don't know the host name or IP address of time server, please ask network administrator or use 'pool.ntp.org' as time server.
Daylight Savings	If the country / region of your residence use daylight saving time, please check 'Enable Function' box, and select the beginning and ending date of daylight time saving.

### 3-1-2 Password Settings

You can change the web login password of this broadband router. If you keep using the default password '1234', other people may access the configuration interface without your permission. Please change the password as soon as possible.



The screenshot shows a web form for changing the password. It consists of three rows, each with a label and an input field. The labels are 'Current Password', 'New Password', and 'Confirmed Password', all in yellow text on a dark grey background. The input fields are white with blue borders. Below the input fields are two buttons: 'Apply' and 'Cancel', both in a light grey box with a blue border.

The descriptions of every setting item are listed as follow:

Item Name	Description
Current Password	Please input current password here.
New Password	Please input new password here.
Confirmed Password	Please input new password here again for confirmation.

After you inputted current and new password, click 'Apply' to save changes, or you can click 'Cancel' to keep current password untouched.



### 3-1-3 Remote Management

If you need to manage this broadband router outside of your LAN (i.e. from Internet), you can use this function to assign a remote IP address which is permitted to connect to this broadband router's web management interface from Internet.

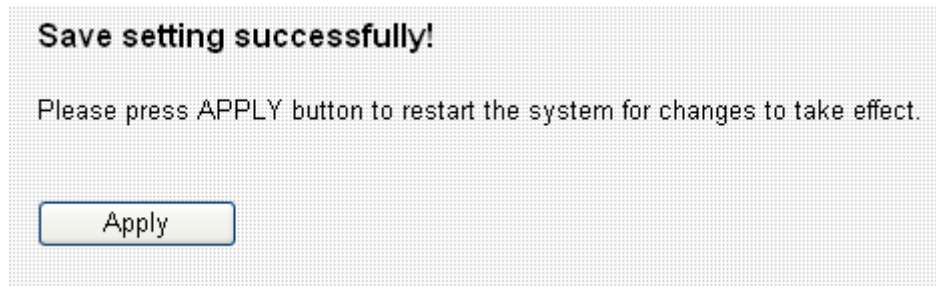
If it's not required for you to manage this broadband router from Internet, you can disable this function to improve security.

Host address	Port	Enabled
<input type="text" value="0.0.0.0"/>	<input type="text" value="8080"/>	<input checked="" type="checkbox"/>

The descriptions of every setting item are listed as follow:

Item Name	Description
Host address	<i>Input the IP address of the remote host you wish to initiate a management access.</i>
Port	<i>You can define the port number this router should expect an incoming connection request. If you're providing a web service (default port number is 80), you should try to use other port number. You can use the default port setting '8080', or something like '32245' or '1429'. (Any integer between 1 and 65534)</i>
Enabled	<i>Check this box to enable remote management function. When this box is unchecked, no one can access this broadband router's management interface from Internet.</i>

Please click 'Apply' to save changes in this page, or you can click 'Cancel' to discard all settings in this page. After you click 'Apply' button, you'll see the following message:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

## 3-2 WAN

If you would like to access Internet via xDSL/Cable modem, you should

login 3G-6200nL to click “LAN/WAN Switch”



button

to enable the function.

You can setup WAN (Wide Area Network, i.e. Internet) connections of this broadband router in ‘WAN’ menu:

<input type="radio"/>	<b>3G/3.5G</b>	Enter the User Name, Password, APN, PIN Code and Dialed Number provided to you by your service provider in the appropriate fields.
<input checked="" type="radio"/>	<b>Dynamic IP</b>	The Host Name is optional, but may be required by some Service Providers. The default MAC Address is set to the WAN physical interface on the Broadband router. If required by your Service Provider, you can use the 'Clone MAC Address' button to copy the MAC Address of the Network Interface Card installed in your PC and replace the WAN MAC Address with this MAC Address.
<input type="radio"/>	<b>Static IP</b>	If your Service Provider has assigned a Fixed IP address; enter the assigned IP Address, Subnet Mask and the Gateway IP Address provided.
<input type="radio"/>	<b>PPPoE</b>	Enter the PPPoE User Name and Password assigned by your Service Provider. The Service Name is normally optional, but may be required by some Service Providers. Enter a Idle Time (in minutes) to define a maximum period of time for which the Internet connection is maintained during inactivity. If the connection is inactive for longer than the Maximum Idle Time, then the connection will be dropped. You can enable the Connect on Demand option to automatically re-establish the connection as soon as you attempt to access the Internet again. If your Internet Service Provider requires the use of PPPoE, enter the information below.
<input type="radio"/>	<b>PPTP</b>	Point-to-Point Tunneling Protocol is a common connection method used in xDSL connections.
<input type="radio"/>	<b>L2TP</b>	Layer Two Tunneling Protocol is a common connection method used in xDSL connections.
<input type="radio"/>	<b>Telstra Big Pond</b>	If your Internet service is provided by Telstra Big Pond in Australia, you will need to enter your information below, This information is provided by Teistra BigPond.

Please select the WAN connection type you wish to use, then click ‘Apply’ to continue. You can also click ‘Previous’ to back to previous page.

If you’re not sure which connection type you should use, please call your ISP’s service hotline and ask for help. You’ll not be able to connect to Internet with wrong connection type.

### 3-2-1 3G/3.5G

3G-6200nL supports most of 3G/3.5G modem cards, just connect the modem card to the USB port of 3G-6200nL and 3G-6200nL will recognize it automatically, no additional setup procedure required. However, some of modem cards require PIN code or account / password (you have to use 3G-6200nL's web interface to input these information), and some modem cards requires you to connect the modem card with your PC and install driver / utility before you connect it with 3G-6200nL (all PCs which need to access Internet by 3G-6200nL requires to perform this procedure once). If you still not able to connect to Internet, please use wired Internet connection to access our website :

<http://www.edimax.com/> ,download latest version of firmware and upgrade 3G-6200nL's firmware. If you still not be able to get connected by your 3G/3.5G modem card, please contact your dealer of purchase and provide the model name of the 3G/3.5G modem card you have, we'll try our best to help you to solve the problem.

Only one Internet connection (wireless / wired) can be used at the same time. Wireless connection (3G/3.5G) will be selected first, and use wired Internet connection as backup. Therefore, please DO NOT connect your 3G/3.5G modem card with 3G-6200nL, or your telecomm service provider may charge you with high communication fee. For example, if you connect 3G/3.5G modem card with 3G-6200nL when you're using wired Internet connection, wired connection will be dropped and use 3G/3.5G wireless connection instead. If 3G/3.5G wireless signal reception is poor and the connection can not be restored within 60 seconds, 3G-6200nL will use wired Internet connection again, and will not switch back to wireless Internet connection (This only happens with wired Internet connection is available. If wired connection is unavailable, 3G-6200nL will try to establish 3G/3.5G wireless connection again and again). If you want to use 3G/3.5G wireless connection again, you need to remove 3G/3.5G modem card from 3G-6200nL and reconnect it back after 5 seconds.

( A ) Plug and play, no setup procedure required.

Connect the USB 3G/3.5G modem card with 3G-6200nL and make sure the corresponding USB LED indicator of 3G-6200nL lights up, then you can use the web browser to access Internet.

( B ) PIN code or user name / password required:

Please check the authentication method you want to use. Most of telecomm service providers require you to input PIN Code, please check

‘SIM’ and input the PIN code provided by telecomm service provider. Most of options listed here are optional and you don’t have to provide those information if telecomm service provider doesn’t provide you with those information.

If telecomm provider provides you with username / password, please check /User Name / Password box and input the user name / password provided by telecomm service provider, then click ‘OK’ button. Wait for 1 minute (for 3G-6200nL to reboot), then you can access Internet.

The screenshot shows the EDIMAX web interface with a red header. The status bar at the top displays '2:20:10 IP:192.168.2.1 V2.10 Running Time 0day:02:20:14'. The navigation menu includes 'Quick Setup', 'General Setup', 'Status', 'Tools', 'Language', and 'Home'. The breadcrumb trail reads 'Home / Quick Setup - Time Zone / Quick Setup - WAN / Quick Setup - 3G/3.5G'. The main content area contains a form with the following fields and controls:

<b>PIN Code :</b>	<input type="text"/>
<b>APN :</b>	<input type="text"/>
<b>User Name :</b>	<input type="text"/>
<b>Password :</b>	<input type="password"/>
<b>Verify Password :</b>	<input type="password"/>
<b>Service :</b>	3G/3.5G Only (UMTS/HSPA/HSDPA) ▼
<b>AT Dial Script :</b>	<input type="text"/>
<b>Connection Type :</b>	Disconnected <input type="button" value="Connect"/> <input type="button" value="Disconnect"/>

At the bottom right of the form are two buttons:  and .

Note: Please choose “CDMA”, if your ISP use 3G CDMA system.

### 3-2-2 Dynamic IP

Dynamic IP means your ISP will assign an IP address to you automatically by 'DHCP' (Dynamic Host Configuration Protocol). Dynamic IP is often used by cable modem Internet connection.

Host Name :

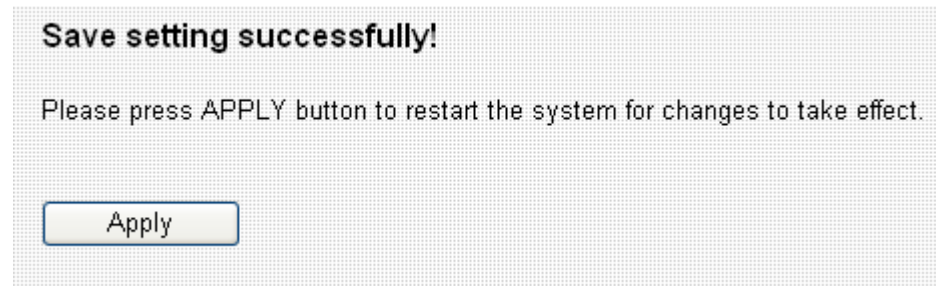
MAC address :

TTL : ☒ Disabled ☐ Enabled

Here are descriptions of every setup items:

Item Name	Description
<i>Host Name</i>	<i>Please input the host name of your computer, this is optional, and only required if your service provider asks you to do so.</i>
<i>MAC address</i>	<i>Please input MAC address of your computer here, if your service provider only permits computer with certain MAC address to access internet. If you're using the computer which used to connect to Internet via cable modem, you can simply press 'Clone Mac address' button to fill the MAC address field with the MAC address of your computer.</i>
<i>TTL</i>	<i>Time-to-live (TTL) is a value in an Internet Protocol packet that tells a network router whether or not the packet has been in the network too long and should be discarded.</i>

If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

### 3-2-3 Static IP

Some ISP will give you a fixed IP address, and ask you to use this IP address to establish Internet connection. In this case, you have to select this connection type to establish connection with your ISP.

Please note that if your ISP is assigning a fixed IP address to you by DHCP or PPPoE, do not select this connection type. Please contact your ISP's service hotline to make sure you really need to use static IP as connection type.

IP address assigned by your Service Provider :	<input type="text" value="172.1.1.1"/>
Subnet Mask :	<input type="text" value="255.255.0.0"/>
DNS address :	<input type="text"/>
Service Provider Gateway Address :	<input type="text" value="172.1.1.254"/>
TTL :	<input checked="" type="radio"/> Disabled <input type="radio"/> Enabled
<div>Back OK</div>	

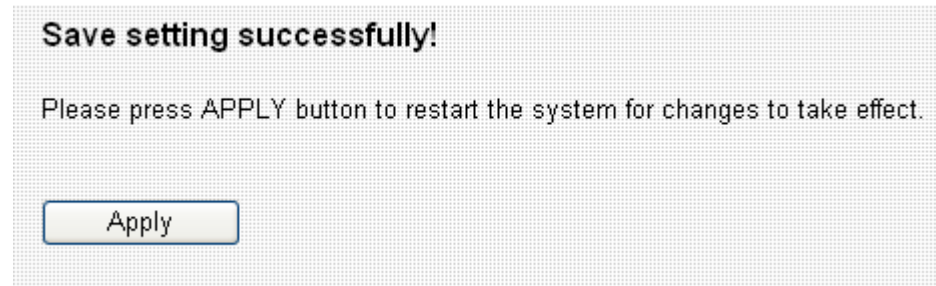
Here are descriptions of every setup items:

Item Name	Description
<i>IP address assigned by your by your service provider</i>	<i>Please input IP address assigned by your service provider.</i>
<i>Subnet Mask</i>	<i>Please input subnet mask assigned by your service provider.</i>
<i>DNS address</i>	<i>Please input the IP address of DNS server provided by your service provider.</i>
<i>Service Provider Gateway Address</i>	<i>Please input the IP address of DNS server provided by your service provider.</i>
<i>TTL</i>	<i>Time-to-live (TTL) is a value in an Internet Protocol packet that tells a network router whether or not the packet has been in the network too long and should be discarded.</i>



**You must use the addresses provided by your Internet service provider, wrong setting value will cause connection problem.**

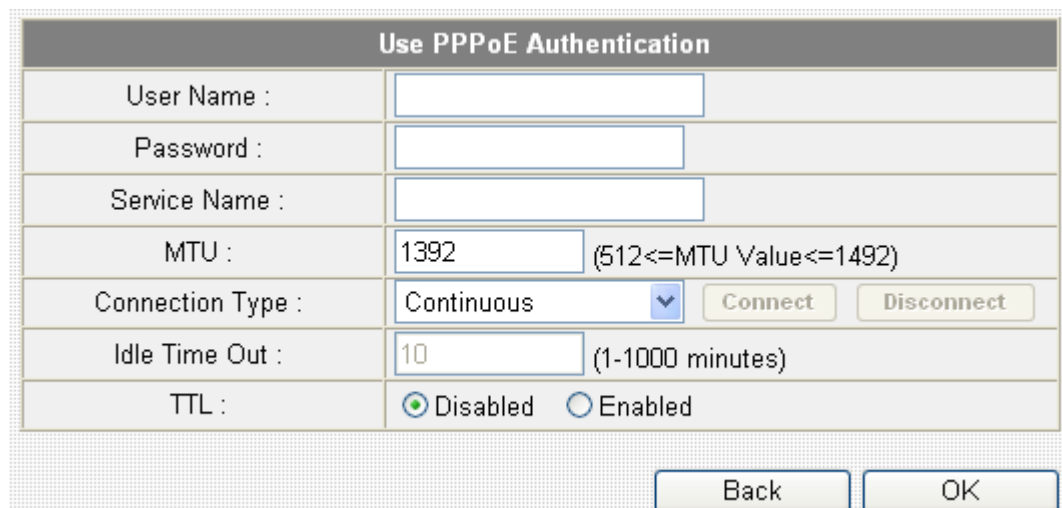
If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

### 3-2-4 PPPoE

If your ISP requires you to establish Internet connection by PPPoE (Point-to-Point Protocol over Ethernet), you can use this connection type to establish Internet connection.

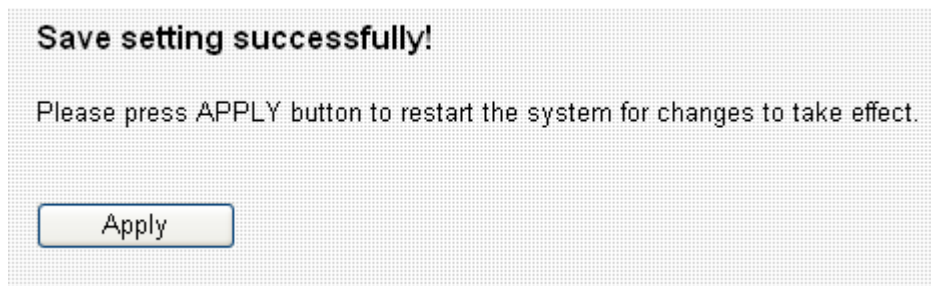


Here are descriptions of every setup items:

Item Name	Description
<i>User Name</i>	<i>Please input user name assigned by your Internet service provider here.</i>
<i>Password</i>	<i>Please input the password assigned by your Internet service provider here.</i>
<i>Service Name</i>	<i>Please give a name to this Internet service, this is optional.</i>
<i>MTU</i>	<i>Please input the MTU value of your network connection here. If you don't know, you can use default value.</i>
<i>Connection Type</i>	<i>Please select the connection type of Internet connection you wish to use. There are 3 options:</i>  <i>'Continuous' - keep internet connection alive, do not disconnect.</i>  <i>'Connect on Demand' - only connects to</i>

	<p><i>Internet when there's a connect attempt,</i></p> <p><i>Manual - only connects to Internet when 'Connect' button on this page is pressed, and disconnects when 'Disconnect button is pressed.</i></p>
<i>Idle Time Out</i>	<p><i>Please specify the time to shutdown internet connect after no internet activity is detected in minute(s). This option is only available when connection type is 'Connect on Demand'.</i></p>
<i>TTL</i>	<p><i>Time-to-live (TTL) is a value in an Internet Protocol packet that tells a network router whether or not the packet has been in the network too long and should be discarded.</i></p>

If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

### 3-2-5 PPTP

If your ISP requires you to use PPTP (Point-to-Point Tunneling Protocol) to establish connection, you can select this connection type to establish Internet connection.

PPTP requires two kinds of setting: WAN interface setting (setup IP address) and PPTP setting (PPTP user name and password). Here we start from WAN interface setting first:

<input checked="" type="radio"/> Obtain an IP address automatically :	
Host Name :	<input type="text"/>
MAC address :	<input type="text" value="000000000000"/> <input type="button" value="Clone Mac address"/>
<input type="radio"/> Use the following IP address :	
IP address :	<input type="text" value="0.0.0.0"/>
Subnet Mask :	<input type="text" value="0.0.0.0"/>
Default Gateway :	<input type="text" value="0.0.0.0"/>
<input checked="" type="radio"/> Obtain an IP address automatically	
<input type="radio"/> Use the following IP address	
DNS1 address :	<input type="text" value="0.0.0.0"/>
DNS2 address :	<input type="text" value="0.0.0.0"/>
<b>• PPTP Settings</b>	
User ID :	<input type="text"/>
Password :	<input type="text"/>
PPTP Gateway :	<input type="text"/>
Connection ID :	<input type="text"/> (Optional)
MTU :	<input type="text" value="0"/> (512<=MTU Value<=1492)
BEZEQ-ISRAEL :	<input type="checkbox"/> Enable (for BEZEQ network in ISRAEL use only)
Connection Type :	<input type="text" value="Continuous"/> <input type="button" value="Connect"/> <input type="button" value="Disconnect"/>
Idle Time Out :	<input type="text" value="0"/> (1-1000 minutes)
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

Select the type of how you obtain IP address from your service provider here. You can choose 'Obtain an IP address automatically' (equal to

DHCP, please refer to ‘Cable Modem’ section above), or ‘Use the following IP address’ (i.e. static IP address).

WAN interface settings must be correctly set, or the Internet connection will fail even those settings of PPTP settings are correct. Please contact your Internet service provider if you don’t know what you should fill in these fields.

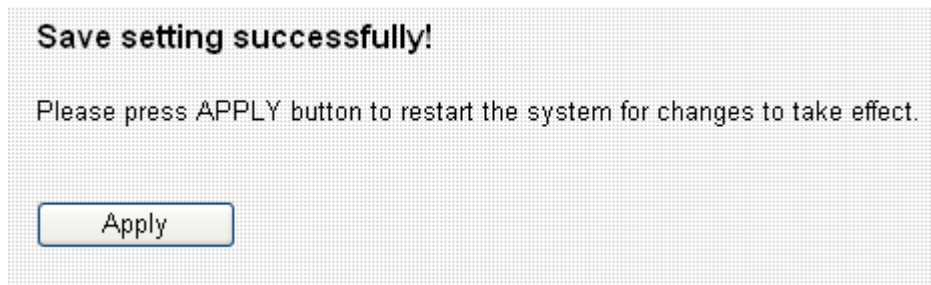
Now please go to PPTP settings section:

Here are descriptions of every setup items:

Item Name	Description
<i>User ID</i>	<i>Please input user ID (user name) assigned by your Internet service provider here.</i>
<i>Password</i>	<i>Please input the password assigned by your Internet service provider here.</i>
<i>PPTP Gateway</i>	<i>Please input the IP address of PPTP gateway assigned by your Internet service provider here.</i>
<i>Connection ID</i>	<i>Please input the connection ID here, this is optional and you can leave it blank.</i>
<i>MTU</i>	<i>Please input the MTU value of your network connection here. If you don’t know, you can use default value.</i>
<i>BEZEQ-ISRAEL</i>	<i>Check ‘Enable’ box if you’re using BEZEQ network service in Israel. Do not check this box if you’re using other Internet service provider.</i>
<i>Connection Type</i>	<p><i>Please select the connection type of Internet connection you wish to use. There are 3 options:</i></p> <p><i>‘Continuous’ - keep internet connection alive, do not disconnect.</i></p> <p><i>‘Connect on Demand’ - only connects to Internet when there’s a connect attempt,</i></p> <p><i>Manual - only connects to Internet when</i></p>

	<i>'Connect' button on this page is pressed, and disconnects when 'Disconnect button is pressed.</i>
<i>Idle Time Out</i>	<i>Please specify the time to shutdown internet connect after no internet activity is detected in minute(s). This option is only available when connection type is 'Connect on Demand'.</i>

If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

### 3-2-6 L2TP

If your ISP requires you to use L2TP (Layer-2 Tunneling Protocol) to establish connection, you can select this connection type to establish Internet connection. L2TP is another popular connection method for xDSL and other Internet connection types, and all required setting items are the same with PPTP connection.

Like PPTP, there are two kinds of required setting, we'll start from 'WAN Interface Settings':

<input checked="" type="radio"/> Obtain an IP address automatically :	
Host Name :	<input type="text"/>
MAC address :	<input type="text" value="000000000000"/> <input type="button" value="Clone Mac address"/>
<input type="radio"/> Use the following IP address :	
IP address :	<input type="text" value="0.0.0.0"/>
Subnet Mask :	<input type="text" value="0.0.0.0"/>
Default Gateway :	<input type="text" value="0.0.0.0"/>
<input checked="" type="radio"/> Obtain an IP address automatically	
<input type="radio"/> Use the following IP address	
DNS1 address :	<input type="text" value="0.0.0.0"/>
DNS2 address :	<input type="text" value="0.0.0.0"/>
<b>• L2TP Settings</b>	
User ID :	<input type="text"/>
Password :	<input type="text"/>
L2TP Gateway :	<input type="text"/>
MTU :	<input type="text" value="0"/> (512<=MTU Value<=1492)
Connection Type :	<input type="text" value="Continuous"/> <input type="button" value="Connect"/> <input type="button" value="Disconnect"/>
Idle Time Out :	<input type="text" value="0"/> (1-1000 minutes)
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

Please select the type of how you obtain IP address from your service provider here. You can choose 'Obtain an IP address automatically' (equal to DHCP, please refer to 'Cable Modem' section above), or 'Use the

following IP address' (equal to static IP address, please refer to 'PPPoE xDSL' section above).

WAN interface settings must be correctly set, or the Internet connection will fail even those settings of L2TP settings are correct. Please contact your Internet service provider if you don't know what you should fill in these fields.

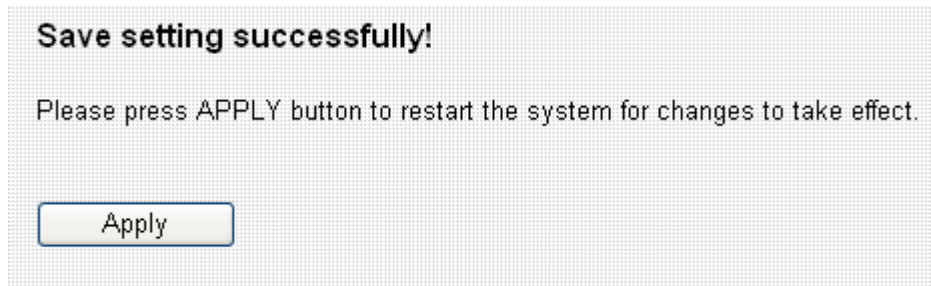
Now please go to L2TP settings section:  
Here are descriptions of every setup items:

Item Name	Description
<i>User ID</i>	<i>Please input user ID (user name) assigned by your Internet service provider here.</i>
<i>Password</i>	<i>Please input the password assigned by your Internet service provider here.</i>
<i>L2TP Gateway</i>	<i>Please input the IP address of L2TP gateway assigned by your Internet service provider here.</i>
<i>MTU</i>	<i>Please input the MTU value of your network connection here. If you don't know, you can use default value.</i>
<i>Connection Type</i>	<i>Please select the connection type of Internet connection you wish to use. There are 3 options:</i>  <i>'Continuous' - keep internet connection alive, do not disconnect.</i>  <i>'Connect on Demand' - only connects to Internet when there's a connect attempt,</i>  <i>Manual - only connects to Internet when 'Connect' button on this page is pressed, and disconnects when 'Disconnect button is pressed.</i>
<i>Idle Time Out</i>	<i>Please specify the time to shutdown internet connect after no internet activity is detected in</i>



	<i>minute(s). This option is only available when connection type is 'Connect on Demand'.</i>
--	--

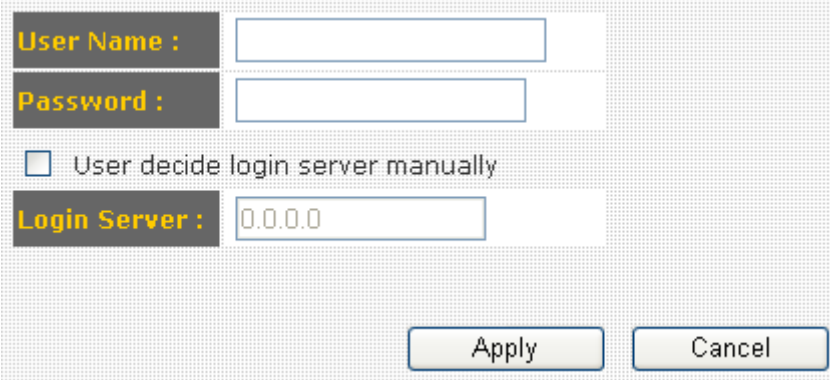
If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

### 3-2-7 Telstra Big Pond

This connection type only works for Telstra big pond network service in Australia. DO NOT select this connection type if you're not using Telstra big pond network service.

A screenshot of a network configuration window for Telstra Big Pond. It features four input fields: 'User Name' and 'Password' are empty text boxes; 'Login Server' is a text box containing '0.0.0.0'. Between the 'Password' and 'Login Server' fields is a checkbox labeled 'User decide login server manually'. At the bottom right are 'Apply' and 'Cancel' buttons.

User Name :

Password :

☐ User decide login server manually

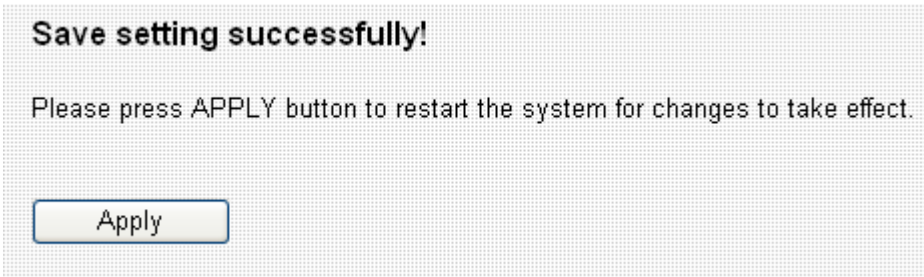
Login Server :

Apply Cancel

Here are descriptions of every setup items:

Item Name	Description
User Name	Please input the user name assigned by Telstra.
Password	Please input the password assigned by Telstra.
User device login server manually	Check this box to choose login server by yourself.
Login Server	Please input the IP address of login server here.

If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:

A screenshot of a message box with a light gray background. It contains the text 'Save setting successfully!' in bold, followed by 'Please press APPLY button to restart the system for changes to take effect.' and an 'Apply' button at the bottom.

**Save setting successfully!**

Please press APPLY button to restart the system for changes to take effect.

Apply

Please click 'Apply' to save changes you made and restart the broadband

router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

## 3-3 LAN (Wired)

You can setup Wired LAN (Local Area Network) connections of this broadband router in 'LAN' menu. Please also note that both wired and wireless LAN uses the same LAN IP address settings, too.

LAN settings split into 3 sections: LAN IP, DHCP Server, and Static DHCP leases. Please refer to corresponding sections below for detailed setup instructions.

### 3-3-1 Start

Before you start - Suggestions for deciding an IP address to be used with this broadband router

Before all computers using wired Ethernet connection or wireless connection can communicate with each other and access internet, they must have a valid IP address.

There are two ways to assign IP addresses to computers: static IP address (set the IP address for every computer manually), and dynamic IP address (IP address of computers will be assigned by router automatically. It's recommended for most of computers to use dynamic IP address, it will save a lot of time on setting IP addresses for every computer, especially when there are a lot of computers in your network; for servers and network devices which will provide services to other computer and users that come from Internet, static IP address should be used, so other computes can locate the server.

This broadband router has a built-in DHCP (Dynamic Host Configuration Protocol) server, and can help you to assign IP addresses to your client computers. Almost all network computers / devices manufactured after year 1995 are compatible with DHCP, and you can let this broadband router to assign the IP address to client computers / devices for you.

***Suggestions on IP address numbering plan:***

**If you have no idea on how to define an IP address plan for your network, here are some suggestions.**

- 1. A valid IP address has 4 fields: a.b.c.d, for most of home and company users, it's suggested to use 192.168.c.d, where c is an integer between 0 and 254, and d is an integer between 1 and 254. This router is capable to work with up to 253 clients, so you can set 'd' field of IP address of router as 1 or 254 (or any number between 1 and 254), and pick a number between 0 and 254 for field 'c'.**
- 2. In most cases, you should use '255.255.255.0' as subnet mask, which allows up to 253 clients (this also meets router's capability of working with up to 253 clients).**
- 3. For all servers and network devices which will provide services to other people (like Internet service, print service, and file service), they should use static IP address. Give each of them a unique number between 1 and 253, and maintain a list, so everyone can locate those servers easily.**
- 4. For computers which are not dedicated to provide specific service to others, they should use dynamic IP address.**

***If you don't really understand the descriptions listed above, don't worry! We will provide recommended setup values below.***

### 3-3-2 LAN IP

If you enable “DHCP Server”, the router can assign IP address to PC which connect with the router. You can use this setting to assign an IP address to the LAN interface of this broadband router.

IP address :	<input type="text" value="192.168.2.1"/>
Subnet Mask :	<input type="text" value="255.255.255.0"/>
802.1d Spanning Tree :	<input type="button" value="Disabled"/> ▼
DHCP Server :	<input type="button" value="Enabled"/> ▼
Lease Time :	<input type="button" value="Forever"/> ▼

Here are descriptions of every setup items:

Item Name	Description
<i>IP address</i>	<i>Please input the IP address of this broadband router's LAN interface.</i>
<i>Subnet Mask</i>	<i>Please input subnet mask for this network.</i>
<i>802.1d Spanning Tree</i>	<i>If you wish to activate 802.1d spanning tree function, select 'Enabled' for setup item '802.1d Spanning Tree', or set it to 'Disabled'.</i>
<i>DHCP Server</i>	<i>If you want to activate DHCP server function of this router, select 'Enabled', or set it to 'Disabled'.</i>
<i>Lease Time</i>	<i>Please select the lease time for every DHCP leases here. You can select the time period from the dropdown list, and the DHCP client will be forced to obtain a new IP address from this broadband router after this period of time. You can select 'Forever' if you're using this broadband router with only few computers (less than 30 computers)</i>

**Recommended Value if you don't know what to fill:**

IP Address: 192.168.1.254

Subnet Mask: 255.255.255.0

802.1d Spanning Tree: Disabled

DHCP Server: Enabled

### 3-3-3 DHCP Server

You can use this setting to decide the range of IP address leases.

**DHCP Server**

Start IP :	<input type="text" value="192.168.2.100"/>
End IP :	<input type="text" value="192.168.2.200"/>
Domain Name :	<input type="text"/>

Here are descriptions of every setup items:

Item Name	Description
<i>Start IP</i>	<i>Please input the start IP address of the IP leases range.</i>
<i>End IP</i>	<i>Please input the end IP address of the IP leases range.</i>
<i>Domain Name</i>	<i>If you wish, you can also input the domain name for your network. This is optional.</i>

***Recommended Value if you don't know what to fill:***

Lease Time: Two Weeks (or 'Forever', if you have less than 20 computers)  
Start IP: 192.168.2.2  
End IP: 192.168.2.200  
Domain Name: (leave it blank)

**NOTE:**

- 1. The number of the last field (mentioned 'd' field) of 'End IP' must be greater than 'Start IP', and can not the same with router's IP address.**
- 2. The former three fields of IP address of 'Start IP', 'End IP', and 'IP Address of 'LAN IP' section (mentioned 'a', 'b', and 'c' field) should be the same.**
- 3. These settings will affect wireless clients, too.**

### 3-3-4 Static DHCP Leases

If you wish to assign a fixed IP address to certain computers / devices by DHCP, you can use this function to establish a MAC-to-IP address table here, so you can assign a specific IP address to a specific computer / network device by its MAC address.

The screenshot shows a web-based configuration interface for Static DHCP Leases. At the top, the title "Static DHCP Leases Table" is followed by the note "It allows to entry 16 sets address only." Below this is a table with four columns: "NO.", "MAC address", "IP address", and "Select". Under the table are three buttons: "Delete Selected", "Delete All", and "Reset". A checkbox labeled "Enable Static DHCP Leases" is present. Below the checkbox is a "New" button and two input fields labeled "MAC address :" and "IP address :". To the right of these fields are "Add" and "Clear" buttons. At the bottom right are "Apply" and "Cancel" buttons.

Here are descriptions of every setup items:

Item Name	Description
<i>Enable Static DHCP Leases</i>	<i>Check this box to enable this function, otherwise uncheck it to disable this function.</i>
<i>MAC Address</i>	<i>Input the MAC address of the computer or network device (total 12 characters, with character from 0 to 9, and from a to f, like '001122aabbcc').</i>
<i>IP address</i>	<i>Input the IP address you want to assign to this computer or network device.</i>
<i>Add</i>	<i>After you inputted MAC address and IP address pair, click this button to add the pair to static DHCP leases table.</i>
<i>Clear</i>	<i>Click this button to remove texts in MAC address and IP address field.</i>



All MAC-to-IP address entries will be listed in this page, and this broadband router supports up to 16 static DHCP leases:

**Static DHCP Leases Table**  
It allows to entry 16 sets address only.

NO.	MAC address	IP address	Select
1	11:22:33:44:55:66	192.168.2.10	<input type="checkbox"/>
2	aa:bb:cc:dd:ee:ff	192.168.2.11	<input type="checkbox"/>

To delete one or more entries listed here, please check the box of the mapping entry (under 'Select'), and click 'Delete Selected' button.

If you wish to delete all mapping entries, click 'Delete All' button. To deselect all checked boxes, click 'Reset' button.

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:

**Save setting successfully!**

Please press APPLY button to restart the system for changes to take effect.

Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

## 3-4 Wireless

You can setup Wireless LAN connection parameters of this broadband router in 'Wireless' menu:

<input type="radio"/>	<b>Basic Settings</b>	This page allows you to define ESSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point.
<input type="radio"/>	<b>Security Settings</b>	This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.
<input type="radio"/>	<b>MAC Address Filtering</b>	For security reason, the Access Point features MAC Address Filtering that only allows authorized MAC Addresses associating to the Access Point.
<input type="radio"/>	<b>WPS(Wi-Fi Protected Setup) Settings</b>	This page allows you to change the setting for WPS(Wi-Fi Protected Setup).WPS can help your wireless client automatically connect to the Access Point.
<input type="radio"/>	<b>Wireless Schedule</b>	In this page you can add rules to make the wireless function turn on/off automatically following the schedule.

Please select one setting in this menu, then click 'Apply' to proceed. If you wish to go back to previous page, click 'Previous'.

### 3-4-1 Basic Settings

You can set basic settings of wireless LAN here.

Band :	2.4 GHz (B+G+N) ▼	Advanced Settings
ESSID :	edimax	
Channel Number :	11 ▼	
Associated Clients :	Show Active Clients	
		Apply Cancel

Here are descriptions of 'Band' setup items:

---

**BAND :** Please select the radio band you want to use from 'Band' dropdown menu , and the following message will be displayed:

2.4 GHz (B)	2.4GHz band, only allows 802.11b wireless network client to connect this router (maximum transfer rate 11Mbps).
2.4 GHz (N)	2.4GHz band, only allows 802.11n wireless network client to connect this router (maximum transfer rate 150Mbps).
2.4 GHz (B+G)	2.4GHz band, only allows 802.11b and 802.11g wireless network client to connect this router (maximum transfer rate 11Mbps for 802.11b clients, and maximum 54Mbps for 802.11g clients).
2.4 GHz (G)	2.4GHz band, only allows 802.11g wireless network client to connect this router (maximum transfer rate 54Mbps).

**2.4 GHz (B+G+N)** 2.4GHz band, allows 802.11b, 802.11g, and 802.11n wireless network client to connect this router (maximum transfer rate 11Mbps for 802.11b clients, maximum 54Mbps for 802.11g clients, and maximum 150Mbps for 802.11n clients).

**SSID:** *This is the name of wireless router. You can type any alphanumerical characters here, maximum 32 characters. ESSID is used to identify your own wireless router from others when there are other wireless routers in the same area. Default SSID is 'edimax', it's recommended to change default ESSID name to the one which is meaningful to you, like myhome, office\_room1, etc.*

**Channel Number :** *Please select a channel from the dropdown list of 'Channel Number', available channel numbers are 1 to 13 for European countries, 1 to 11 for USA. You can choose any channel number you want to use, and almost all wireless clients can locate the channel you're using automatically without any problem. However, it's still useful to remember the channel number you use, some wireless client supports manual channel number select, and this would help in certain scenario when there is some radio communication problem.*

**Associated Clients :** *Click 'Show Active Clients' button, then an "Active Wireless Client Table" will pop up. You can see the status of all active wireless stations that are connecting to the access point.*

---

**NOTE:** If you don't have special reason to limit the type of allowed wireless client, it's recommended to choose '2.4 GHz (B+G+N) to maximize wireless client compatibility.

**TIPS: You can try to change channel number to another one if you think the data transfer rate is too slow. There could be some other wireless routers using the same channel, which will disturb the radio communication between wireless client and the wireless router.**

After you finish the wireless setting, please click ‘Apply’ button, after you click ‘Apply’, the following message will be displayed on your web browser:

### 3-4-1 AP mode

In AP mode, the following settings will appear:

<b>Band :</b>	2.4 GHz (B+G+N) ▼	Advanced Settings
<b>ESSID :</b>	edimax	
<b>Channel Number :</b>	11 ▼	
<b>Associated Clients :</b>	Show Active Clients	
		Apply Cancel

Here are descriptions of every setup items:

Item Name	Description
<i>Band</i>	<p><i>Please select the radio band from one of following options:</i></p> <p><i>2.4 GHz (B): 2.4GHz band, only allows 802.11b wireless network client to connect this router (maximum transfer rate 11Mbps).</i></p> <p><i>2.4 GHz (N): 2.4GHz band, only allows 802.11n wireless network client to connect this router (maximum transfer rate 150Mbps).</i></p> <p><i>2.4 GHz (B+G): 2.4GHz band, only allows 802.11b and 802.11g wireless network client to connect this router (maximum transfer rate 11Mbps for 802.11b clients, and maximum 54Mbps for 802.11g clients).</i></p> <p><i>2.4 GHz (G): 2.4GHz band, only allows 802.11g wireless network client to connect this router (maximum transfer rate 54Mbps).</i></p> <p><i>2.4 GHz (B+G+N): 2.4GHz Band, Allows 802.11b, 802.11g, and 802.11N wireless clients. It's recommends to select this band to maximize</i></p>

	<i>compatibility.</i>
<i>ESSID</i>	<i>This is the name of broadband router. You can type any alphanumerical characters here, maximum 32 characters. ESSID is used to identify your own broadband router from others when there are other broadband routers in the same area. Default SSID is 'Edimax', it's recommended to change default ESSID value to the one which is meaningful to you, like myhome, office_room1, etc.</i>
<i>Channel Number</i>	<i>Please select a channel from the dropdown list of 'Channel Number', available channel numbers are 1 to 13. You can choose any channel number you want to use, and almost all wireless clients can locate the channel you're using automatically without any problem. However, it's still useful to remember the channel number you use, some wireless client supports manual channel number select, and this would help in certain scenario when there is some radio communication problem.</i>
<i>Associated Clients</i>	<p><i>Click 'Show Active Clients' button to show the list of all connected wireless clients. You can click 'Refresh' in new window to get latest list again, or click 'Close' to close the window.</i></p> <p><i>Please note that if you have pop-up blocker installed, you may have to disable it or tell your pop-up blocker to allow the popup window, or you will not be able to see the wireless client list window.</i></p>
<i>Advanced Settings</i>	<p><i>When you click "Advanced Settings", you will get a windows as follows. Please do not change the default settings, if you do not understand the meaning of the setting.</i></p> <p><i>Where you can setup Channel Width in "</i></p>

	<i>Auto 20/40MHz ” to get good wireless signal.</i>
--	---

Fragment Threshold:	<input type="text" value="2346"/>	(256-2346)
RTS Threshold:	<input type="text" value="2347"/>	(0-2347)
Beacon Interval:	<input type="text" value="100"/>	(20- 1024 ms)
DTIM Period:	<input type="text" value="3"/>	(1-10)
Data Rate:	Auto ▼	
MSC index:	Auto ▼	
Channel Width:	<input checked="" type="radio"/> Auto 20/40 MHz <input type="radio"/> 20 MHz	
Preamble Type:	<input checked="" type="radio"/> Short Preamble <input type="radio"/> Long Preamble	
Broadcast Essid:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
WMM:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	
CTS Protect:	<input type="radio"/> Auto <input type="radio"/> Always <input checked="" type="radio"/> None	
Tx Power:	100 % ▼	

**TIPS:** You can try to change channel number to another one if you think the data transfer rate is too slow, or keep having problem while transferring the file over wireless network. There could be some other broadband routers using the same channel, which will disturb the radio communication between wireless client and the broadband

When you finished with the settings in this page, you can click ‘Apply’ button to save changes you made in this page, or you can click ‘Cancel’ to discard changes. After you click ‘Apply’ button, you’ll see the following messages:

**Save setting successfully!**

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system for changes to take effect



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

You can click 'Continue' to continue on other settings without restart the broadband router, however, the changes you made will not take effect before you restart the broadband router.

### 3-4-2 Security Settings

This wireless router supports two types of encryption: WEP (Wired Equivalent Privacy) and WPA (Wi-Fi Protected Access):



Encryption : Disable

☐ Enable 802.1x Authentication

Apply Cancel

Please select an encryption method from 'Encryption' dropdown menu, and corresponding setting will appear:

#### *Disabled*

Encryption is disabled. It's **not recommended** to disable encryption because other people may use certain wireless scanner to copy the data transferred over air.

## WEP

Select WEP to enable WEP (Wired Equivalent Privacy) encryption:

Encryption :	WEP
Key Length :	64-bit
Key Format :	Hex (10 characters)
Default Tx Key :	Key 1
Encryption Key 1 :	*****
Encryption Key 2 :	*****
Encryption Key 3 :	*****
Encryption Key 4 :	*****
<input type="checkbox"/> Enable 802.1x Authentication	
<div>ApplyCancel</div>	

Here are descriptions of every setup items:

Item Name	Description
Key Length	<i>There are two types of WEP key length: 64-bit and 128-bit. Using '128-bit' is safer than '64-bit', but will reduce some data transfer performance.</i>
Key Format	<i>There are two types of key format: ASCII and Hex. When you select a key format, the number of characters of key will be displayed. For example, if you select '64-bit' as key length, and 'Hex' as key format, you'll see the message at the right of 'Key Format' is 'Hex (10 characters)', which means the length of WEP key is 10 characters.</i>
Default Tx Key	<i>You can set up to four sets of WEP key, and you can decide which key is being used by default here. <b>If you don't know which one you should use, select 'Key 1'.</b></i>
Encryption Key 1 to 4	<i>Input WEP key characters here, the number of</i>

	<p><i>characters must be the same as the number displayed at 'Key Format' field. You can use any alphanumerical characters (0-9, a-z, and A-Z) if you select 'ASCII' key format, and if you select 'Hex' as key format, you can use characters 0-9, a-f, and A-F. You must enter at least one encryption key here, and if you entered multiple WEP keys, they should not be same with each other.</i></p>
--	---

Please click 'Apply' to save changes, or click 'Reset' to clear the texts in all fields. If you click 'Apply', the following messages will appear:

**Save setting successfully!**

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system for changes to take effect

Continue

Apply

You can click 'Continue' to back to previous page and continue setting, or click 'Apply' to restart the broadband router so the changes will take effect.

### WPA pre-shared key

WPA (Wi-Fi Protected Access) is also an encryption method and is safer than WEP. It's recommended to use WPA instead of WEP when you need to use encryption to protect your data security.

<b>Encryption :</b>	WPA pre-shared key ▾
<b>WPA Unicast Cipher Suite :</b>	<input checked="" type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES) <input type="radio"/> WPA2 Mixed
<b>Pre-shared Key Format :</b>	Passphrase ▾
<b>Pre-shared Key :</b>	<input type="text"/>

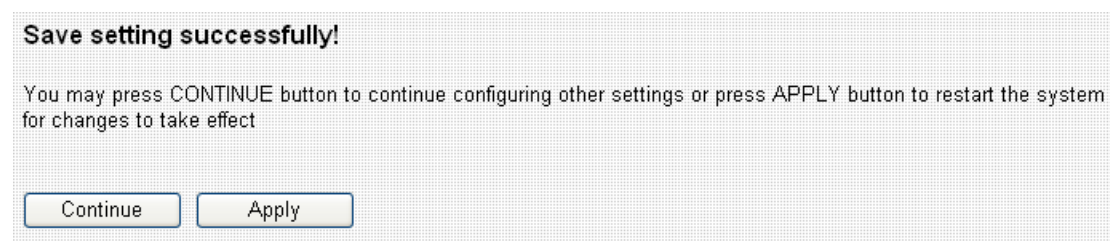
Apply

Cancel

Here are descriptions of every setup items:

Item Name	Description
<i>WPA Unicast Cipher Suite</i>	<i>Please select a type of WPA cipher suite. Available options are: WPA (TKIP), WPA2 (AES), and WPA2 Mixed. You can select one of them, but you have to make sure your wireless client support the cipher you selected.</i>
<i>Pre-shared Key Format</i>	<i>Select the type of pre-shared key, you can select Passphrase (8 or more alphanumerical characters, up to 63), or Hex (64 characters of 0-9, and a-f).</i>
<i>Pre-shared Key</i>	<i>Please input the WPA passphrase here. <b>It's not recommended to use a word that can be found in a dictionary due to security reason.</b></i>

Please click 'Apply' to save changes, or click 'Reset' to clear the texts in all fields. If you click 'Apply', the following messages will appear:



You can click 'Continue' to back to previous page and continue setting, or click 'Apply' to restart the broadband router so the changes will take effect.

## WPA RADIUS

If you have RADIUS authentication server on your local network, you can authenticate the wireless clients by RADIUS server's user database. Only authenticated clients can establish wireless connection with this broadband router.

<b>Encryption :</b>	WPA RADIUS
<b>WPA Unicast Cipher Suite :</b>	<input checked="" type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES) <input type="radio"/> WPA2 Mixed
<b>RADIUS Server IP address :</b>	<input type="text"/>
<b>RADIUS Server Port :</b>	1812
<b>RADIUS Server Password :</b>	<input type="text"/>
<div> <input type="button" value="Apply"/> <input type="button" value="Cancel"/> </div>	

Here are descriptions of every setup items:

Item Name	Description
<i>WPA Unicast Cipher Suite</i>	<i>Please select a type of WPA cipher suite. Available options are: WPA (TKIP), WPA2 (AES), and WPA2 Mixed. You can select one of them, but you have to make sure your wireless client support the cipher you selected.</i>
<i>RADIUS Server IP address</i>	<i>Input the IP address of RADIUS authentication server here.</i>
<i>RADIUS Server Port</i>	<i>Input the port number of RADIUS authentication server here. Most of RADIUS server will use port number 1812 and you can keep using default value.</i>
<i>RADIUS Server Password</i>	<i>Input the password of RADIUS authentication server here.</i>

Please click 'Apply' to save changes, or click 'Reset' to clear the texts in all fields. If you click 'Apply', the following messages will appear:

**Save setting successfully!**

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system for changes to take effect

You can click 'Continue' to back to previous page and continue setting, or click 'Apply' to restart the broadband router so the changes will take effect.

### 3-4-3 MAC Address Filtering

This function will help you to prevent unauthorized users from connecting to your wireless router; only those wireless devices who have the MAC address you assigned here can gain access to your wireless router. You can use this function with other security measures described in previous section, to create a safer wireless environment. Up to 20 MAC addresses can be assigned.

**MAC Address Filtering Table**  
It allows to entry 20 sets address only.

NO.	MAC address	Comment	Select
-----	-------------	---------	--------

☐ **Enable Wireless Access Control**

**New**

To enable MAC address filtering, please check 'Enable Wireless Access Control' box in this page, the descriptions of other setting items are listed as follow:

Item Name	Description
MAC address	Input the MAC address you wish to add to the MAC address to the table.
Comment	You can input any text here as the comment of this MAC address, like 'ROOM 2A Computer' or anything. You can input up to 16 alphanumerical characters here. This is optional and you can leave it blank, however, it's recommended to use this field to write a comment for every MAC addresses as a

	<i>memory aid.</i>
<i>Add</i>	<i>Click 'Add' button to add the MAC address and associated comment to the MAC address filtering table.</i>
<i>Clear</i>	<i>Click 'Clear' to remove the value you inputted in MAC address and comment field.</i>

All MAC address entries will be listed in this page:

NO.	MAC address	Comment	Select
1	11:22:33:44:55:66	John's Computer	<input type="checkbox"/>
2	aa:bb:cc:dd:ee:ff	Mary's Computer	<input type="checkbox"/>

To delete one or more entries listed here, please check the box of the mapping entry (under 'Select'), and click 'Delete Selected' button.

If you wish to delete all mapping entries, click 'Delete All' button. To deselect all checked boxes, click 'Reset' button.

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:

**Save setting successfully!**

Please press APPLY button to restart the system for changes to take effect.

Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.



### 3-4-4 WPS

WPS (Wi-Fi Protected Setup) provides a convenient way to establish the connection between this broadband router and wireless clients. Any WPS-compatible wireless clients can establish secure connection with this broadband router with simple push-button type configuration or PinCode type configuration.

The screenshot shows a web-based configuration interface for WPS. At the top, there is a checkbox labeled "Enable WPS" which is checked. Below this, under the heading "Wi-Fi Protected Setup Information", there is a table with the following details:

WPS Status:	unConfigured
Self PinCode:	20668587
SSID	edimax
Authentication Mode	Disable
Passphrase Key	

Below the table, under the heading "Device Configure", there are three rows of configuration options:

- Config Mode:** A dropdown menu currently set to "Registrar".
- Configure via Push Button:** A button labeled "Start PBC".
- Configure via Client PinCode:** A text input field followed by a button labeled "Start PIN".

Here are descriptions of every setup items:

Item Name	Description
Enable WPS	Check this box to enable WPS function, uncheck it to disable WPS.
WPS Status	If the wireless security (encryption) function of this wireless router is properly set, you'll see 'Configured' message here. If wireless security function has not been set, you'll see 'unConfigured'.
Self PIN code	This is the WPS PIN code of this wireless router. This code is useful when you need to build wireless connection by WPS with other WPS-enabled wireless devices.
SSID	The SSID of this wireless router will be displayed here.
Authentication Mode	The wireless security authentication mode of

	<i>this wireless router will be displayed here.</i>
<i>Passphrase Key</i>	<i>The WPA passphrase will be displayed as asterisk here.</i>
<i>Config Mode</i>	<p><i>Select the WPS configuration role of this broadband router.</i></p> <p><i>Registrar: This broadband router will act as WPS registrar and wait for wireless clients to send WPS configuration request.</i></p> <p><i>Enrollee: This broadband router will act as WPS enrollee and send WPS configuration request to other WPS registrar.</i></p>
<i>Configure via Push Button</i>	<p><i>Click 'Start PBC' to start Push-Button type WPS configuration (PBC). Please push the WPS push-button on other WPS-compatible network devices to begin WPS configuration.</i></p> <p><i>You can also push the 'WPS / Reset' button located at the back of this broadband router to start PBC without using web configuration interface.</i></p>
<i>Configure via Client PinCode</i>	<i>Please input the PinCode displayed at the configuration software of WPS-enabled wireless client, and click 'Start PIN' to establish connection with the wireless client.</i>

### 3-4-5 Wireless Schedule

By wireless schedule, you can restrict wireless clients (computers) from accessing improper website. Because you can setup time and you can enable/disable router's wireless signal to control schedule of Internet access .

☒ Enable Schedules settings

(1) weekday ☐ Sunday ☐ Monday ☐ Tuesday ☐ Wednesday ☐ Thursday ☐ Friday ☐ Saturday

(2) time hour: 0 minute: 00

(3) command wireless on

Add Reset

Item Name	Description
<i>Enable Schedule settings</i>	<i>Check this box to enable Schedule function, uncheck it to disable Wireless Schedule .</i>
<i>Weekday</i>	<i>Where you can select a day or several days.</i>
<i>Time</i>	<i>Enter a start time for the schedule.</i>
<i>Command</i>	<i>Wireless on or Wireless off (Enable or Disable wireless signal for the schedule)</i>

Note : The function is not workable, if you disable wireless hardware button ( back panel ).

Click “ Add ”, the list of schedules will be listed here.

weekday	time	command	select
Sunday	3:40	wireless on	<input type="checkbox"/>
Sunday	6:10	wireless off	<input type="checkbox"/>
Sunday,Monday,Tuesday,Wednesday,Thursday	18:10	wireless on	<input type="checkbox"/>
Sunday,Monday,Tuesday,Wednesday	17:40	wireless off	<input type="checkbox"/>
Sunday	2:0	wireless on	<input type="checkbox"/>

Delete Delete All Reset

Please click ‘Apply’ to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

### 3-5 Advance Settings\*

This router provides various network functionalities like QoS and NAT, and you can configure these functions in ‘Advanced Settings’ menu.

<input type="radio"/>	<b>QoS</b>	Quality of Service (QoS) refers to the capability of a network to provide better service to selected network traffic. The primary goal of QoS is to provide priority including dedicated bandwidth, controlled jitter and latency (required by some real-time and interactive traffic), and improved loss characteristics. Also important is making sure that providing priority for one or more flows does not make other flows fail.
<input type="radio"/>	<b>NAT</b>	Network Address Translation (NAT) allows multiple users at your local site to access the Internet through a single Public IP Address or multiple Public IP Addresses. NAT provides Firewall protection from hacker attacks and has the flexibility to allow you to map Private IP Addresses to Public IP Addresses for key services such as the Web or FTP.
<input type="radio"/>	<b>Firewall</b>	The Broadband router provides extensive firewall protection by restricting connection parameters, thus limiting the risk of hacker attack, and defending against a wide array of common attacks. However, for applications that require unrestricted access to the Internet, you can configure a specific client/server as a Demilitarized Zone (DMZ).
<input type="radio"/>	<b>DDNS</b>	DDNS allows users to map the static domain name to a dynamic IP address. You must get a account, password and your static domain name from the DDNS service providers. Our products have DDNS support for <a href="http://www.dyndns.org">www.dyndns.org</a> and <a href="http://www.tzo.com">www.tzo.com</a> now.
<input type="radio"/>	<b>Port Forwarding</b>	Entries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewall. These settings are only necessary if you wish to host some sort of server like a web server or mail server on the private local network behind your Gateway's NAT firewall.
<input type="radio"/>	<b>DMZ(Demilitarized Zone)</b>	If you have a local client PC that cannot run an Internet application properly from behind the NAT firewall, then you can open the client up to unrestricted two-way Internet access by defining a Virtual DMZ Host.
<input type="radio"/>	<b>Fail Over</b>	Configure the priority of existing WAN connections and the rule for WAN fail over.

Please select the function you wish to set, then click ‘Apply’ button. If you wish to go back to previous page, click ‘Previous’ button.

### 3-5-1 QoS

Quality of service provides an efficient way for computers on the network to share the internet bandwidth with a promised quality of internet service. Without QoS, all computers and devices on the network will compete with each other to get internet bandwidth, and some applications which require guaranteed bandwidth (like video streaming and network telephone) will be affected, therefore an unpleasing result will occur, like the interruption of video / audio transfer.

With this function, you can limit the maximum bandwidth or give a guaranteed bandwidth for a specific computer, to avoid said unpleasing result from happening.

#### 3-5-1-1 Basic QoS Settings

☐ Enable QoS

**Total Download Bandwidth:**  kbits

**Total Upload Bandwidth:**  kbits

Current QoS Table

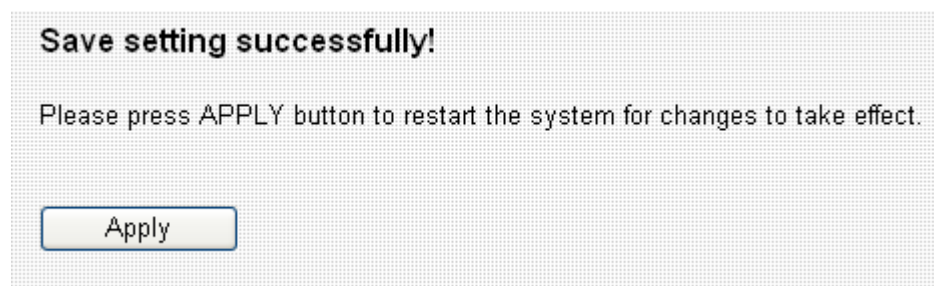
Priority	Rule Name	Upload Bandwidth	Download Bandwidth	Select
----------	-----------	------------------	--------------------	--------

Here are descriptions of every setup items:

Item Name	Description
<i>Enable QoS</i>	<i>Check this box to enable QoS function, uncheck it to disable QoS.</i>
<i>Total Download Bandwidth</i>	<i>You can set the limit of total download bandwidth in kbits. To disable download bandwidth limitation, input '0' here.</i>
<i>Total Upload Bandwidth</i>	<i>You can set the limit of total upload bandwidth in kbits. To disable upload bandwidth limitation, input '0' here.</i>
<i>Add</i>	<i>Click 'add' button to add a new QoS rule (detailed instructions will be given below).</i>

<i>Edit</i>	<i>If you want to modify the content of a specific rule, please check the 'select' box of the rule you want to edit, then click 'Edit' button. <b>Only one rule should be selected a time!</b> If you didn't select a rule before clicking 'Edit' button, you'll be prompted to add a new rule.</i>
<i>Delete Selected</i>	<i>You can delete selected rules by clicking this button. You can select one or more rules to delete by check the 'select' the box of the rule(s) you want to delete a time. <b>If the QoS table is empty, this button will be grayed out and can not be clicked.</b></i>
<i>Delete All</i>	<i>By clicking this button, you can delete all rules currently listed in the QoS table. <b>If the QoS table is empty, this button will be grayed out and can not be clicked.</b></i>
<i>Move Up</i>	<i>Move selected item up.</i>
<i>Move Down</i>	<i>Move selected item down.</i>
<i>Reset</i>	<i>If you want to erase all values you just entered. Click 'Reset'</i>

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

### 3-5-1-2 Add a new QoS entry

After you click 'Add' button in QoS menu, a new setting page will appear:

Rule Name :	<input type="text"/>
Bandwidth :	Download <input type="button" value="v"/> <input type="text"/> Kbps <input type="button" value="v"/> guarantee <input type="button" value="v"/>
Local IP Address :	<input type="text"/> - <input type="text"/>
Local Port Range :	<input type="text"/>
Remote IP Address :	<input type="text"/> - <input type="text"/>
Remote Port Range :	<input type="text"/>
Traffic Type :	None <input type="button" value="v"/>
Protocol :	TCP <input type="button" value="v"/>
<input type="button" value="Save"/> <input type="button" value="Reset"/>	

Here are descriptions of every setup items:

Item Name	Description
Rule Name	Please give a name to this QoS rule (up to 15 alphanumerical characters).
Bandwidth	Set the bandwidth limitation of this QoS rule. You have to select the data direction of this rule (Upload or Download), and the speed of bandwidth limitation in Kbps, then select the type of QoS: 'guarantee' (guaranteed usable bandwidth for this rule) or 'max' (set the maximum bandwidth for the application allowed by this rule).
Local IP Address	Specify the local (source) IP address that will be affected by this rule. Please input the starting IP address in the left field, and input the end IP address in the right field to define a range of IP addresses, or just input the IP address in the left field to define a single IP address.
Local Port Range	Please input the range of local (source) port

	<i>number that will be affected by this rule. If you want to apply this rule on port 80 to 90, please input '80-90'; if you want to apply this rule on a single port, just input the port number, like '80'</i>
<i>Remote IP Address</i>	<i>Specify the remote (destination) IP address that will be affected by this rule. Please input the starting IP address in the left field, and input the end IP address in the right field to define a range of IP addresses, or just input the IP address in the left field to define a single IP address.</i>
<i>Remote Port Range</i>	<i>Please input the range of remote (destination) port number that will be affected by this rule. If you want to apply this rule on port 80 to 90, please input '80-90'; if you want to apply this rule on a single port, just input the port number, like '80'. If the remote (destination) IP address and /or port number is universal, just leave it blank.</i>
<i>Traffic Type</i>	<i>Please select the traffic type of this rule, available options are None, SMTP, HTTP, POP3, and FTP. You can select a specific traffic type for this rule, if you want to make this rule as a IP address based rule (apply the limitation on all traffics from / to the specified IP address / port number), select 'None'.</i>
<i>Protocol</i>	<i>Please select the protocol type of this rule, available options are TCP and UDP. If you don't know what protocol your application uses, please try 'TCP' first, and switch to 'UDP' if this rule doesn't seems to work.</i>

Please click 'save' button to save settings, and the rule you just set will appear in current QoS table; if you did anything wrong, you'll get an error message when you click 'Save' button, please correct your input by the instructions given by the error message. If you want to erase all values you just entered, click 'Reset'.



### 3-5-2 NAT

Network address translations solve the problem if sharing a single IP address to multiple computers. Without NAT, all computers must be assigned with a valid Internet IP address to get connected to Internet, but Internet service providers only provide very few IP addresses to every user. Therefore it's necessary to use NAT technology to share a single Internet IP address to multiple computers on local network, so everyone can get connected to Internet.

<input type="radio"/>	<b>Virtual Server</b>	You can configure the Broadband router as a Virtual Server so that remote users accessing services such as the Web or FTP at your local site via Public IP Addresses can be automatically redirected to local servers configured with Private IP Addresses. In other words, depending on the requested service (TCP/UDP) port number, the Broadband router redirects the external service request to the appropriate internal server (located at one of your LAN's Private IP Address).
<input type="radio"/>	<b>Special applications</b>	Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications cannot work when Network Address Translation (NAT) is enabled. If you need to run applications that require multiple connections, specify the port normally associated with an application in the "Trigger Port" field, select the protocol type as TCP or UDP, then enter the public ports associated with the trigger port to open them for inbound traffic. Note: The range of the Trigger Port is 1 to 65535.
<input type="radio"/>	<b>UPnP Setting</b>	UPnP is more than just a simple extension of the Plug and Play peripheral model. It is designed to support zero-configuration, "invisible" networking, and automatic discovery for a breadth of device categories from a wide range of vendors. With UPnP, a device can dynamically join a network, obtain an IP address, convey its capabilities, and learn about the presence and capabilities of other devices—all automatically; truly enabling zero configuration networks. Devices can subsequently communicate with each other directly; thereby further enabling peer to peer networking.
<input type="radio"/>	<b>ALG Settings</b>	Below are applications that need router's special support to make them work under the NAT. You can select applications that you are using.
<input type="radio"/>	<b>Static Routing</b>	You can enable Static Routing to turn off NAT function of this router and let this router forward packets by your routing policy.

This broadband router supports four types of NAT functions, and the instructions of these functions will be given below.

### 3-5-2-1 Virtual Server

This function allows you to redirect a port on Internet IP address (on WAN port) to a specified port of an IP address on local network, so you can setup an Internet service on the computer on local network, without exposing it on Internet directly. You can also build many sets of port redirection, to provide many different Internet services on different local computers via a single Internet IP address.

☐ Enable Virtual Server

Private IP	Computer name	Private Port	Type	Public Port	Comment
<input type="text"/>	<< -----Select----- >>	<input type="text"/>	Both	<input type="text"/>	<input type="text"/>

**Current Virtual Server Table:**

NO.	Computer name	Private IP	Private Port	Type	Public Port	Comment	Select
-----	---------------	------------	--------------	------	-------------	---------	--------

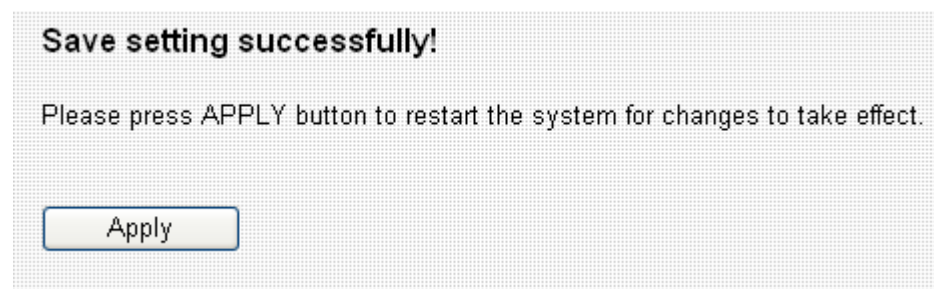
Here are descriptions of every setup items:

Item Name	Description
<i>Enable Virtual Server</i>	<i>Check this box to enable virtual server, and uncheck this box to disable virtual server.</i>
<i>Private IP</i>	<i>Input the IP address of the computer which provides Internet service.</i>
<i>Computer name</i>	<i>All computer names found by this broadband router on local network will be listed here. You can select the computer name and click '&lt;&lt;' button to add selected computer's IP address to 'Private IP' field.</i>  <i>Please note that this list may not be able to list all computers on your local network.</i>
<i>Private Port</i>	<i>Input the port number of the IP address which provides Internet service.</i>
<i>Type</i>	<i>Select the type of connection, TCP or UDP. If you're not sure, please select 'Both'</i>
<i>Public Port</i>	<i>Please select the port number of Internet IP</i>

	<i>address which will be redirected to the port number of local IP address defined above.</i>
<i>Comment</i>	<i>Please input any text to describe this mapping, up to 16 alphanumerical characters.</i>
<i>Add</i>	<i>Add the mapping to virtual server table.</i>
<i>Reset</i>	<i>Remove all inputted values.</i>

All existing virtual server mappings will be displayed in this page. To delete one or more mappings, check the box of the mapping, then click 'Delete Selected' button to remove the mapping. To delete all existing mappings, click 'Delete All' button. If you want to uncheck all boxes, click 'Reset'.

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

### 3-5-2-2 Special Applications

Some applications require more than one connection a time; these applications won't work with simple NAT rules. In order to make these applications work, you can use this function to let these applications work.

☐ Enable

IP Address	Computer name	TCP Port to Open	UDP Port to Open	Comment
0.0.0.0	<< -----Select-----			

Popular Applications: Select Game [v] [Add]

[Add] [Reset]

Current Trigger-Port Table

NO.	Computer name	IP Address	TCP Port to Open	UDP Port to Open	Comment	Select
-----	---------------	------------	------------------	------------------	---------	--------

[Delete Selected] [Delete All] [Reset]

[Apply] [Cancel]

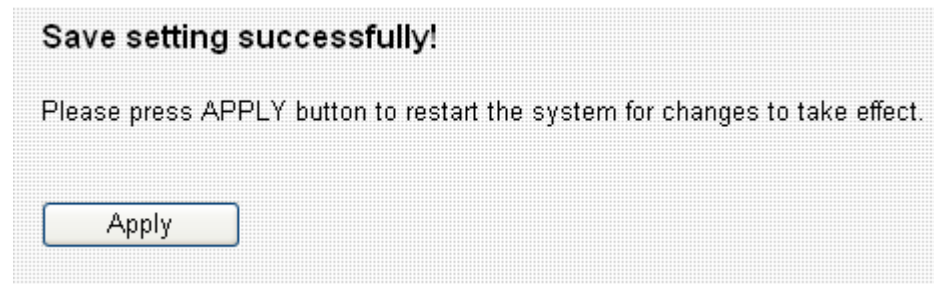
Here are descriptions of every setup items:

Item Name	Description
<i>Enable</i>	<i>Check this box to enable support for special applications, and uncheck this box to disable this support.</i>
<i>IP Address</i>	<i>Input the IP address of the computer which is going to use the special application.</i>
<i>Computer name</i>	<i>All computer names found by this broadband router on local network will be listed here. You can select the computer name and click ' &lt;&lt; ' button to add selected computer's IP address to 'IP Address' field.</i>  <i>Please note that this list may not be able to list all computers on your local network.</i>
<i>TCP Port to Open</i>	<i>Input the TCP port number required by the special application, the port number can be a</i>

	<i>single value, or a range (like 20-50). If you need to input more than one port number and they're not contiguous, list all port numbers here and separate them by comma ( , ). If the application does not use TCP port, leave it blank.</i>
<i>UDP Port to Open)</i>	<i>Input the UDP port number required by the special application, the port number can be a single value, or a range (like 20-50). If you need to input more than one port number and they're not contiguous, list all port numbers here and separate them by comma ( , ). If the application does not use UDP port, leave it blank.</i>
<i>Comment</i>	<i>You can input any text here to help you remember the purpose of this item. This is optional.</i>
<i>Select Game</i>	<i>This router comes with a numerous port mapping settings of network games. If the game you wish to set is listed here, you can select it from dropdown menu.</i>  <i>After a game is selected, click 'Add' (the one next to 'Select Game' dropdown list) to add the connection parameters to all respective fields.</i>
<i>Add</i>	<i>Click this button to add a new port mapping rule to special applications table.</i>
<i>Reset</i>	<i>Click this button to remove all values in every field.</i>

All existing special application mappings will be displayed in this page. To delete one or more mappings, check the box of the mapping, then click 'Delete Selected' button to remove the mapping. To delete all existing mappings, click 'Delete All' button. If you want to uncheck all boxes, click 'Reset'.

When you finished with the settings in this page, you can click ‘Apply’ button to save changes you made in this page, or you can click ‘Cancel’ to discard changes. After you click ‘Apply’ button, you’ll see the following messages:



Please click ‘Apply’ to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

### 3-5-2-3 UPnP Settings



Parameters	Default	Description
UPnP Feature	Disable	You can Enable or Disable UPnP feature here. After you enable the UPnP feature, all client systems that support UPnP, like Windows XP, can discover this router automatically and access the Internet through this router without any configuration. The NAT Traversal function provided by UPnP can let applications which support UPnP smoothly connect to Internet websites and avoid any incompatibility problem due to the NAT port translation.

Click <**Apply**> at the bottom of the screen to save the configurations. You can now configure other advance sections or start using the router.

### 3-5-2-4 ALG Settings

You can select applications that require “Application Layer Gateway” support.

Enable	Name	Comment
<input checked="" type="checkbox"/>	Amanda	Support for Amanda backup tool protocol.
<input checked="" type="checkbox"/>	Egg	Support for eggdrop bot networks.
<input checked="" type="checkbox"/>	FTP	Support for FTP.
<input checked="" type="checkbox"/>	H323	Support for H323/netmeeting.
<input checked="" type="checkbox"/>	IRC	Allows DCC to work though NAT and connection tracking.
<input checked="" type="checkbox"/>	MMS	Support for Microsoft Streaming Media Services protocol.
<input checked="" type="checkbox"/>	Quake3	Support for Quake III Arena connection tracking and nat.
<input checked="" type="checkbox"/>	Talk	Allows netfilter to track talk connections.
<input checked="" type="checkbox"/>	TFTP	Support for TFTP.
<input checked="" type="checkbox"/>	IPsec	Support for IPsec pass-through
<input type="checkbox"/>	Starcraft	Support for Starcraft/Battle.net game protocol.
<input type="checkbox"/>	MSN	Support for MSN file tranfer.

Parameters	Default	Description
Enable		You can enable “Application Layer Gateway” function, and the router will let selected application correctly pass though the NAT gateway.

Click <**Apply**> at the bottom of the screen to save the configurations. You can now configure other advance sections or start using the router.



### 3-5-2-5 Static Routing

This router provides static routing function, and the static routing can work with NAT (IP Sharing) function. With static routing, the router can forward packets according to your routing rules.

☐ Enable Static Routing

Destination LAN IP	Subnet Mask	Default Gateway	Hop Count	Interface
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	LAN <span>▼</span>

Current Static Routing Table:

NO.	Destination LAN IP	Subnet Mask	Default Gateway	Hop Count	Interface	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>						

Parameters	Description
Enable Static Routing	Static routing function is disabled by default. You have to enable the static routing function, to make your routing rules take effect.
Destination LAN IP	The network address of destination LAN.
Subnet Mask	The subnet mask of destination LAN.
Default Gateway	The next stop gateway of the path toward the destination LAN. This is the IP of the neighbor router that this router should communicate with on the path to the destination LAN.
Hop Count	The number of hops (routers) to pass through to reach the destination LAN.
Interface	The interface that go to the next hop (router).
Add a Rule	Fill in the "Destination LAN IP", "Subnet Mask", "Default Gateway", "Hop Count" and "Interface" of the rule to be added and click "Add". Then this static routing rule will be added to the "Static Routing Table" listed below. If you found any typo before adding it and want to correct it, just click "Reset" and the fields will be cleared.

Remove a Rule	If you want to remove some routing rules from the "Static Routing Table", select the rules you want to remove in the table and click "Delete Selected". If you want remove all rules from the table, just click "Delete All" button. Click "Reset" will clear your current selections.
---------------	--

Click <**Apply**> at the bottom of the screen to save the configurations. You can now configure other advance sections or start using the router.

### 3-5-3 Firewall

This broadband router supports several firewall functions which will help you to protect your network and computer. In this chapter, instructions for using these functions will be given, so you can utilize these functions to protect your network from hackers and malicious intruders.

#### 3-5-3-1 Access Control

By using access control, you can restrict your computers from accessing improper website, or using disallowed applications. You can even only allow computers with certain MAC address to access the network, or deny the computers in the list from accessing your network.

Client PC MAC address	Computer name	Comment
<input type="text"/>	<< -----Select----- >>	<input type="text"/>

NO.	Computer name	Client PC MAC address	Comment	Select
1	OFFLINE	aa:bb:cc:dd:ee:ff	Office PC	<input type="checkbox"/>
2	OFFLINE	11:22:33:44:55:66	lab 1	<input type="checkbox"/>

Here are descriptions of every setup items:

Item Name	Description
Enable MAC Filtering	Check this box to enable MAC address based filtering, and please select 'Deny' or 'Allow' to decide the behavior of MAC filtering table. If you select deny, all MAC addresses listed in filtering table will be denied from connecting to the network; if you select allow, only MAC addresses listed in filtering table will be able to connect to the network, and rejecting all other

	<i>network devices.</i>
<i>Client PC MAC address</i>	<i>Please input the MAC address of computer or network device here, dash ( - ) or colon ( : ) are not required. (i.e. If the MAC address label of your wireless device indicates 'aa-bb-cc-dd-ee-ff' or 'aa:bb:cc:dd:ee:ff', just input 'aabbccddeeff')</i>
<i>Computer Name</i>	<p><i>All computer names found by this broadband router on local network will be listed here. You can select the computer name and click '&lt;&lt;' button to add selected computer's IP address to 'Private IP' field.</i></p> <p><i>Please note that this list may not be able to list all computers on your local network.</i></p>
<i>Comment</i>	<i>You can input any text here as the comment of this MAC address, like 'ROOM 2A Computer' or anything. You can input up to 16 alphanumerical characters here. This is optional and you can leave it blank, however, it's recommended to use this field to write a comment for every MAC addresses as a memory aid.</i>
<i>Add</i>	<i>Click 'Add' button to add the MAC address and associated comment to the MAC address filtering table.</i>
<i>Reset</i>	<i>Remove all inputted values.</i>

All MAC address entries will be listed in this page:

MAC Filtering Table				
NO.	Computer name	Client PC MAC address	Comment	Select
1	OFFLINE	aa:bb:cc:dd:ee:ff	Office PC	<input type="checkbox"/>
2	OFFLINE	11:22:33:44:55:66	lab 1	<input type="checkbox"/>

To delete one or more entries listed here, please check the box of the mapping entry (under 'Select'), and click 'Delete Selected' button.

If you wish to delete all mapping entries, click 'Delete All' button. To deselect all checked boxes, click 'Reset' button.

If you wish to use IP address-based filtering, please use 'IP Filtering Table' in this page:

NO.	Client PC Description	Client PC IP address	Client Service	Protocol	Port Range	Select
1	POS	192.168.98.150	E-mail Sending			<input type="checkbox"/>

Buttons: Add PC, Delete Selected, Delete All

Please check 'Enable IP Filtering Table' box first, and select 'Deny' or 'Allow' to decide the behavior of IP filtering table (Deny the access of IP addresses in the list, or allow the access of IP addressees in the list). You have to click 'Add PC' button to add a new IP address to the list:

**Access Control Add PC**

This page allows users to define service limitation of client PC, including IP address and service type.

Client PC Description :

Client PC IP address :  .

Here are descriptions of every setup items:

Item Name	Description
<i>Client PC Description</i>	<i>Please input any text to describe this IP address, up to 16 alphanumerical characters.</i>
<i>Client PC IP address</i>	<i>Please input the starting IP address in the left field, and input the end IP address in the right field to define a range of IP addresses, or just input the IP address in the left field to define a single IP address.</i>

You also have to select the type of Internet services that will be applied to this access control rule from the list:

Client PC Service :		
Service Name	Detail Description	Select
WWW	HTTP, TCP Port 80, 3128, 8000, 8080, 8081	<input type="checkbox"/>
E-mail Sending	SMTP, TCP Port 25	<input type="checkbox"/>
News Forums	NNTP, TCP Port 119	<input type="checkbox"/>
E-mail Receiving	POP3, TCP Port 110	<input type="checkbox"/>
Secure HTTP	HTTPS, TCP Port 443	<input type="checkbox"/>
File Transfer	FTP, TCP Port 21	<input type="checkbox"/>
MSN Messenger	TCP Port 1863	<input type="checkbox"/>
Telnet Service	TCP Port 23	<input type="checkbox"/>
AIM	AOL Instant Messenger, TCP Port 5190	<input type="checkbox"/>
NetMeeting	H.323, TCP Port 389,522,1503,1720,1731	<input type="checkbox"/>
DNS	UDP Port 53	<input type="checkbox"/>
SNMP	UDP Port 161, 162	<input type="checkbox"/>
VPN-PPTP	TCP Port 1723	<input type="checkbox"/>
VPN-L2TP	UDP Port 1701	<input type="checkbox"/>
TCP	All TCP Port	<input type="checkbox"/>
UDP	All UDP Port	<input type="checkbox"/>

You can select multiple services here. If you wish to deny or allow all services of certain IP address(es), please select both 'TCP' and 'UDP'.

If the service you wish to deny or allow is not listed, you can use 'User Define Service' table to add a new service of your own:

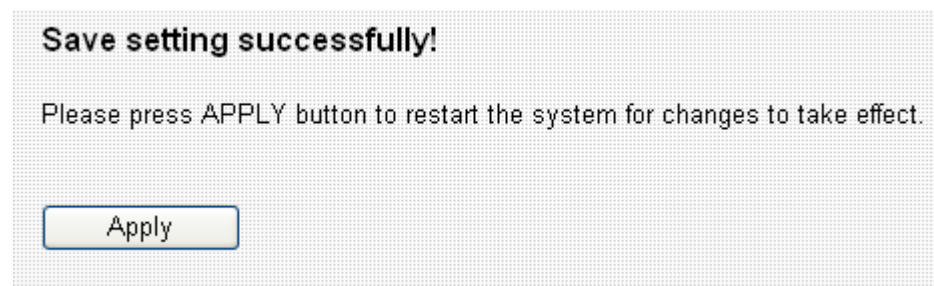
User Define Service	
Protocol :	<input type="button" value="Both"/> ▼
Port Range:	<input type="text"/>
<input type="button" value="Add"/> <input type="button" value="Reset"/>	

Here are descriptions of every setup items:

Item Name	Description
<i>Protocol</i>	<i>Please select the protocol type of this service: TCP or UDP, or 'Both'.</i>
<i>Port Range</i>	<i>Please input the port range if this service. For a single port number, just input the number of service port (like '110').</i>  <i>If this service consists multiple continuous ports, you can input '110-120' for port number 110 to 120, or '110,115,120' for port number 110, 115, and 120.</i>

Click 'Add' to add this IP address restriction rule to the list (and back to previous page), or click 'Reset' to clear all texts in every field.

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

### 3-5-3-2 URL Blocking

If you want to prevent computers in local network from accessing certain website (like pornography, violence, or anything you want to block), you can use this function to stop computers in local network from accessing the site you defined here.

This function is useful for parents and company managers.

Please follow the following instructions to set URL blocking parameters: Please click 'Firewall' menu on the left of web management interface, then click 'URL Blocking', and the following message will be displayed on your web browser:

**URL Blocking**

You can block access to certain Web sites from a particular PC by entering either a full URL address or just a keyword of the Web site.

☒ Enable URL Blocking

URL/Keyword

Add Reset

Current URL Blocking Table:

NO.	URL/Keyword	Select
1	www.playboy.com	<input type="checkbox"/>

Delete Selected Delete All Reset

Apply Cancel

Here are descriptions of every setup items:

Item Name	Description
<i>Enable URL Blocking</i>	<i>Check this box to enforce URL Blocking, uncheck it to disable URL Blocking.</i>
<i>URL/Keyword</i>	<i>Input the URL (host name or IP address of website, like <a href="http://www.blocked-site.com">http://www.blocked-site.com</a> or <a href="http://11.22.33.44">http://11.22.33.44</a>), or the keyword which is</i>



	<i>contained in URL (like pornography, cartoon, stock, or anything).</i>
<i>Add</i>	<i>Click 'Add' button to add the URL / keyword to the URL / Keyword filtering table.</i>
<i>Reset</i>	<i>Click 'Reset' to remove the value you inputted in URL/Keyword field.</i>

All existing URLs will be displayed in 'Current URL Blocking Table':

NO.	URL/Keyword	Select
1	www.playboy.com	<input type="checkbox"/>

If you want to delete a specific URL/Keyword entry, check the 'select' box of the MAC address you want to delete, then click 'Delete Selected' button. (You can select more than one MAC addresses). If you want to delete all URL/Keyword listed here, please click 'Delete All' button, or you can also click 'Reset' button to unselect all URL/Keywords.

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:

**Save setting successfully!**

Please press APPLY button to restart the system for changes to take effect.

Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

### 3-5-3-3 DoS

Denial of Service (DoS) is a common attack measure, by transmitting a great amount of data or request to your Internet IP address and server, the Internet connection will become very slow, and server may stop responding because it is not capable to handle too much traffics.

This router has a built-in DoS attack prevention mechanism; when you activate it, the router will stop the DoS attack for you:

Denial of Service Feature	
Ping of Death :	<input type="checkbox"/>
Discard Ping From WAN :	<input type="checkbox"/>
Port Scan :	<input type="checkbox"/>
Sync Flood :	<input type="checkbox"/>
<a href="#">Advanced Settings</a>	

Here lists four kinds of DoS attacks, please select the type of DoS attack you wish this broadband router to protect, and you can select multiple types of attacks.

The descriptions of every DoS attack is listed below:

Item Name	Description
<i>Ping of Death</i>	<i>Ping of Death is a special packet, and it will cause certain computer to stop responding. Check this box and the router will filter this kind of packet out.</i>
<i>Discard Ping From WAN</i>	<i>Ping is a common and useful tool to know the connection status of a specified remote network device, but some malicious intruder will try to fill your network bandwidth with a lot of PING request data packet, to make your internet connection become very slow, even unusable. Check this box and the router will ignore all inbound PING request, but when you activate this function, you will not be able to</i>

	<i>ping your own router from internet, too.</i>
<i>Port Scan</i>	<i>Some malicious intruder will try to use a 'port scanner' to know how many ports of your Internet IP address are open, and they can collect a lot of valuable information by doing so. Check this box and the router will block all traffics which are trying to scan your Internet IP address.</i>
<i>Sync Flood</i>	<i>This is another kind of attack, which uses a lot of fake connection request to consume the memory of your server, and try to make your server become unusable. Check this box and the router will filter this kind of traffic out.</i>

If you need to specify the details of every DoS attack, please click 'Advanced Settings' button, and the following settings will appear:

**Denial of Service Feature**

☐ Ping of Death : 5 Packet(S) Per Second Burst

☐ Discard Ping From WAN :

☐ Port Scan : ☒ NMAP FIN / URG / PSH  
☒ Xmas tree  
☒ Another Xmas tree  
☒ Null scan  
☒ SYN / RST  
☒ SYN / FIN  
☒ SYN (only unreachable port)

☐ Sync Flood : 30 Packet(S) Per Second Burst

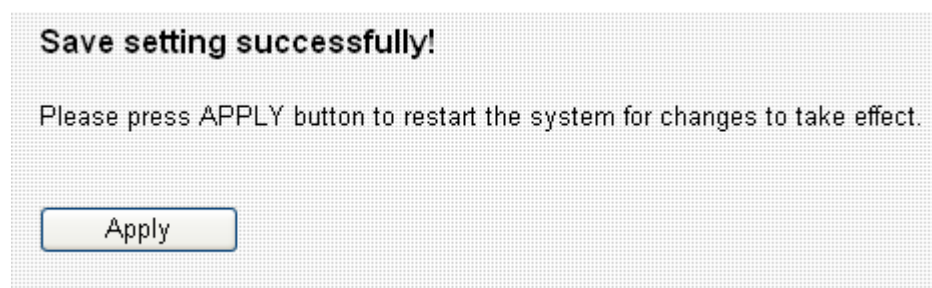
Apply Cancel

The descriptions of every DoS attack is listed below:

Item Name	Description
<i>Ping of Death</i>	<i>Set the threshold of when this DoS prevention mechanism will be activated. Please check the</i>

	<i>box of Ping of Death, and input the frequency of threshold (how many packets per second, minute, or hour), you can also input the 'Burst' value, which means when this number of 'Ping of Death' packet is received in very short time, this DoS prevention mechanism will be activated.</i>
<i>Discard Ping From WAN</i>	<i>Check the box to activate this DoS prevention mechanism.</i>
<i>Port Scan</i>	<i>Many kind of port scan methods are listed here, please check one or more DoS attack methods you want to prevent.</i>
<i>Sync Flood</i>	<i>Like Ping of Death, you can set the threshold of when this DoS prevention mechanism will be activated.</i>

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

### 3-5-4 DDNS

DDNS (Dynamic DNS) is a IP-to-Hostname mapping service for those Internet users who don't have a static (fixed) IP address. It will be a problem when such user wants to provide services to other users on Internet, because their IP address will vary every time when connected to Internet, and other user will not be able to know the IP address they're using at a certain time.

This router supports DDNS service of following service providers:

3322 (<http://www.3322.org/>)

DHS (<http://www.dhs.org>)

DynDNS (<http://www.dyndns.org/>)

ODS (<http://ods.org>)

TZO (<http://www.tzo.com/>)

GnuDIP (<http://gnudip2.sourceforge.net/>)

DyNS (<http://www.dyns.cx/>)

ZoneEdit (<http://www.zoneedit.com>)

DHIS (<http://www.dhis.org/>)

CyberGate (<http://cybergate.planex.co.jp/ddns/>)

NS2GO (<http://ns.ns2go.com/>)

Please go to one of DDNS service provider's webpage listed above, and get a free DDNS account by the instructions given on their webpage. After that, you can use the DDNS page to setup DDNS parameters to use DDNS service:

<b>Dynamic DNS :</b>	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
<b>Provider :</b>	CyberGate ▼
<b>Domain Name :</b>	<input type="text"/>
<b>Account / E-Mail :</b>	<input type="text"/>
<b>Password / Key :</b>	<input type="text"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

Here are descriptions of every setup items:

Item Name	Description
<i>Dynamic DNS</i>	<i>If you want to enable DDNS function, please select 'Enabled'; otherwise please select 'Disabled'</i>
<i>Provider</i>	<i>Select your DDNS service provider here.</i>
<i>Domain Name</i>	<i>Input the domain name you've obtained from DDNS service provider.</i>
<i>Account / E-Mail</i>	<i>Input account or email of DDNS registration.</i>
<i>Password / Key</i>	<i>Input DDNS service password or key.</i>

*If your DDNS provider is 'DHIS', the settings will be different:*

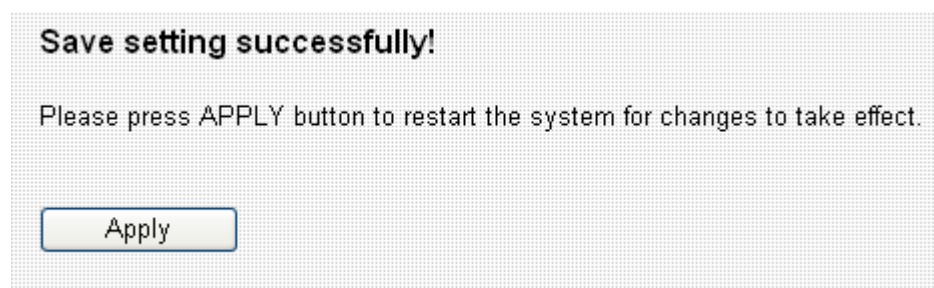
The screenshot shows a configuration window for Dynamic DNS. The 'Dynamic DNS' section has 'Enabled' selected. The 'Provider' is set to 'DHIS'. The 'HostID' is '0', 'ISAddr' is '0.0.0.0', and 'Authentication Type' is 'password'. The 'HostPass' field is empty. 'Apply' and 'Cancel' buttons are at the bottom right.

Here are descriptions of every setup items:

Item Name	Description
HostID	Please input the HostID you applied during DHIS registration.
ISAddr	Please input the ISAddr you applied during DHIS registration.
Authentication Type	Please select the DHIS user authentication type from dropdown menu: password or QRC.
HostPass	Please input the HostID you applied during DHIS registration.  (This field will appear only when

	authentication type is password).
AuthP / AuthQ	<p>Please input the AuthP/AuthQ you applied during DHIS registration.</p> <p>(This field will appear only when authentication type is QRC).</p>

When you finished with the settings in this page, you can click ‘Apply’ button to save changes you made in this page, or you can click ‘Cancel’ to discard changes. After you click ‘Apply’ button, you’ll see the following messages:



Please click ‘Apply’ to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

### 3-5-5 Port Forwarding

This function allows you to redirect a single port or consecutive ports of Internet IP address to the same port of the IP address on local network. The port number(s) of Internet IP address and private IP address (the IP address on local network) must be the same.

If the port number of Internet IP address and private IP address is different, please use 'Virtual Server' function.

The port forwarding setting page looks like this:

☐ Enable Port Forwarding

Private IP	Computer name	Type	Port Range	Comment
<input type="text"/>	<< -----Select----- v	Both v	<input type="text"/> - <input type="text"/>	<input type="text"/>
<input type="button" value="Add"/> <input type="button" value="Reset"/>				

Current Port Forwarding Table:

NO.	Computer name	Private IP	Type	Port Range	Comment	Select
1	OFFLINE	192.168.98.197	TCP	1997-2000	Office PC 197	<input type="checkbox"/>

Here are descriptions of every setup items:

Item Name	Description
Enable Port Forwarding	Check this box to enable port forwarding, and uncheck this box to disable port forwarding.
Private IP	Input the IP address of the computer on local network which provides internet service.
Computer name	<p>All computer names found by this broadband router on local network will be listed here. You can select the computer name and click '&lt;&lt;' button to add selected computer's IP address to 'Private IP' field.</p> <p>Please note that this list may not be able to list all computers on your local network.</p>



<i>Type</i>	<i>Select the type of connection, TCP or UDP. If you're not sure, please select 'Both'.</i>
<i>Port Range</i>	<i>Input the starting port number in the left field, and input the ending port number in the right field. If you only want to redirect a single port number, just fill the port number in the left field.</i>
<i>Comment</i>	<i>Please input any text to describe this mapping, up to 16 alphanumerical characters.</i>
<i>Add</i>	<i>Add the mapping to port forwarding table.</i>
<i>Reset</i>	<i>Remove all inputted values.</i>

All existing URLs will be displayed in 'Current URL Blocking Table':

Current Port Forwarding Table:						
NO.	Computer name	Private IP	Type	Port Range	Comment	Select
1	OFFLINE	192.168.98.197	TCP	1997-2000	Office PC 197	<input type="checkbox"/>

If you want to delete a specific port forwarding entry, check the 'select' box of the port forwarding entry you want to delete, then click 'Delete Selected' button. (You can select more than one port forwarding entries). If you want to delete all port forwarding entries listed here, please click 'Delete All' button or you can also click 'Reset' button to unselect all port forwarding entries.

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:

**Save setting successfully!**

Please press APPLY button to restart the system for changes to take effect.

Apply

Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

### 3-5-6 DMZ

Demilitarized Zone (DMZ) is a special area in your local network. This area resides in local network, and all computers in this area uses private IP address, too. But these private IP addresses are mapped to a certain Internet IP address, so other people on Internet can fully access those computers in DMZ.

The DMZ setting page looks like this:

☐ Enable DMZ

Public IP address	Client PC IP address	Computer name
<input checked="" type="radio"/> Dynamic IP <span>Session 1</span> <span>▼</span>	<input type="text"/>	<span>&lt;&lt; -----Select----- &gt;&gt;</span> <span>▼</span>
<input type="radio"/> Static IP <input type="text"/>	<input type="text"/>	

Add Reset

Current DMZ Table :

NO.	Computer name	Public IP address	Client PC IP address	Select
-----	---------------	-------------------	----------------------	--------

Delete Selected Delete All Reset

Apply Cancel

Here are descriptions of every setup items:

Item Name	Description
Enable DMZ	Check this box to enable DMZ function, uncheck this box to disable DMZ function.
Public IP address	You can select 'Dynamic IP' or 'Static IP' here. If you select 'Dynamic IP', you have to select an Internet connection session from dropdown menu; if you select 'Static IP', please input the IP address that you want to map to a specific private IP address.
Client PC IP address	Please input the private IP address that the Internet IP address will be mapped to.
Computer Name	Select the name of computer.

<i>Add</i>	<i>Add the mapping to port forwarding table.</i>
<i>Reset</i>	<i>Remove all inputted values.</i>

NOTE: Please note that every public IP address can be mapped to a single Client PC IP address only.

All existing DMZ entries will be displayed in 'Current DMZ Table':

Current DMZ Table :				
NO.	Computer name	Public IP address	Client PC IP address	Select
1	OFFLINE	----	192.168.98.30	<input type="checkbox"/>

If you want to delete a specific DMZ entry, check the 'select' box of the DMZ entry you want to delete, then click 'Delete Selected' button. (You can select more than one DMZ entries). If you want to delete all DMZ entries listed here, please click 'Delete All' button or you can also click 'Reset' button to unselect all DMZ entries.

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:

**Save setting successfully!**

Please press APPLY button to restart the system for changes to take effect.

Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

### 3-5-7 Fail Over

3G-6200nL supports automatic backup function. If you have enabled Ethernet WAN function (Switch LAN to WAN) in page . When connecting with xDSL/Cable modem, 3G-6200nL will enable the xDSL/Cable broadband connection automatically when 3G/3.5G Internet connection is not available.

You can surf Internet anywhere and anytime via Edimax 3G-6200nL.

## Fail Over

Configure the priority of existing WAN connections and the rule for WAN fail over.

WAN FailOver :	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
WAN Priority :	3G/3.5G
Idle Timeout Detect :	0 sec.
Ping Target IP :	0.0.0.0

E-Mail Notification :	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
SMTP Server :	
Mail Address From :	
Mail Address To :	

APPLY

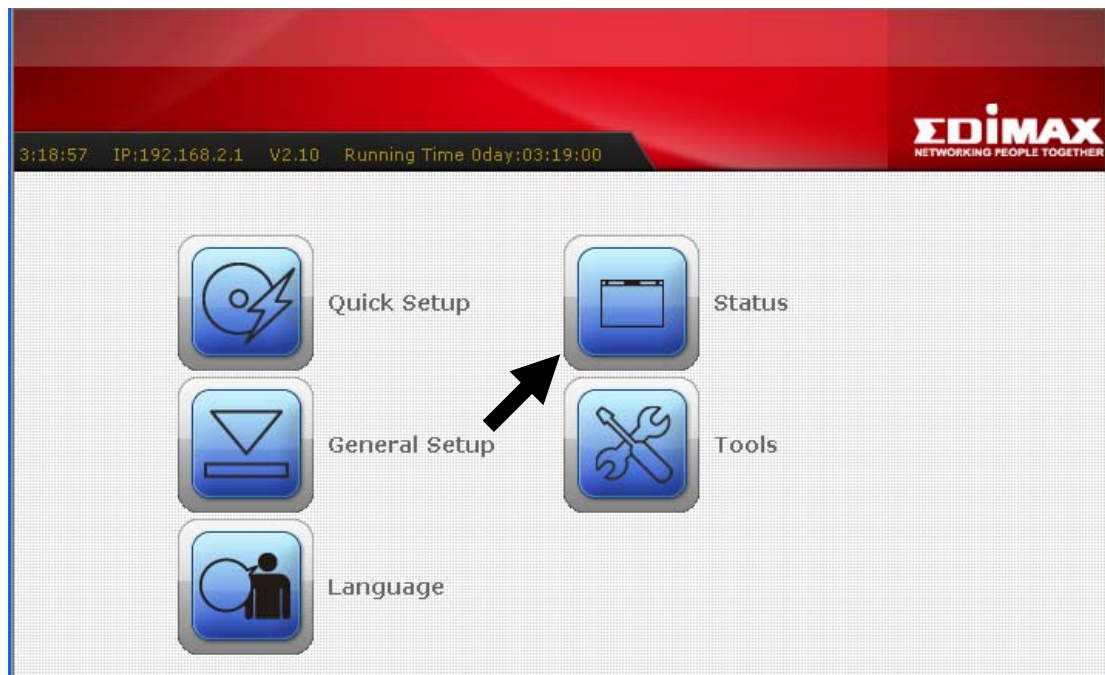
Item Name	Description
WAN Fail-Over	Enable or Disable (Please make sure you have enabled WAN function in chapter 3-2)
WAN Priority	You can setup priority of wireless 3G and xDSL/Cable modem.
Ping Target IP	The router will check Internet connection via this public IP address.
Email Notification	Enable / Disable It's for you to send a message to inform you the fail-over function has been enabled.
SMTP Server	Please input SMTP server IP address.

Click <**Apply**> at the bottom of the screen to save the configurations.  
You can now configure other advance sections or start using the router.

## Chapter IV : Status

In this menu, you can check the operation status of this broadband router. To view the status, follow the following instructions:








1. Click 'Status' button from main menu:



2. The basic system information will be shown:

System	
Model	Wireless 3G Router
Up time	Oday:18:44:54
Hardware Version	Rev. A
Boot Code Version	1.0
Runtime Code Version	2.10

You can check the system uptime and firmware version of this broadband router. If you need detailed information about Internet connection or system usage log, please choose one of them and click 'Apply'. If you want to go back to previous page, please click 'Previous'.

	<b>Internet Connection</b>	View the current internet connection status and related information.
	<b>Device Status</b>	View the current setting status of this device.
	<b>System Log</b>	View the system operation information. You can see the system start up time, connection process...etc. here.
	<b>Security Log</b>	View any attempts that have been made to illegally gain access to your network.
	<b>Active DHCP Client</b>	This table shows the assigned IP address, MAC address and time expired for each DHCP leased client.
	<b>Statistics</b>	This page shows the packet counters for transmission and reception regarding to networks.
	<b>Modem Info</b>	This page shows the 3G/3.5G Modem information
<div> <div>Back</div> <div>Next</div> </div>		



## 5-1 Internet Connection

This page shows the current status of Internet connection.

<b>Attain IP Protocol :</b>	Dynamic IP connect
<b>IP Address :</b>	192.168.9.152
<b>Subnet Mask :</b>	255.255.255.0
<b>Default Gateway :</b>	192.168.9.254
<b>MAC Address :</b>	00:1F:1F:1F:81:A9
<b>Primary DNS :</b>	192.168.1.2
<b>Secondary DNS :</b>	192.168.1.12
<b>WWAN Status :</b>	Disconnected
<b>IP Address :</b>	N/A
<b>Subnet Mask :</b>	N/A
<b>Default Gateway :</b>	N/A

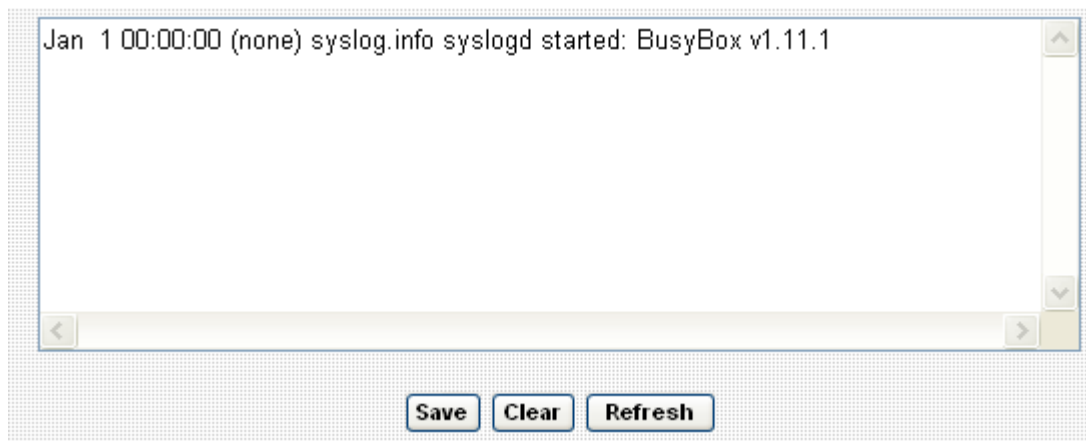
## 5-2 Device Status

This page shows current wireless LAN and wired LAN configuration.

Wireless Configuration	
Mode	AP
ESSID	edimax
Channel Number	11
Security	Disable
LAN Configuration	
IP Address	192.168.2.1
Subnet Mask	255.255.255.0
DHCP Server	Enable
MAC Address	00:1f:1f:1f:89:aa

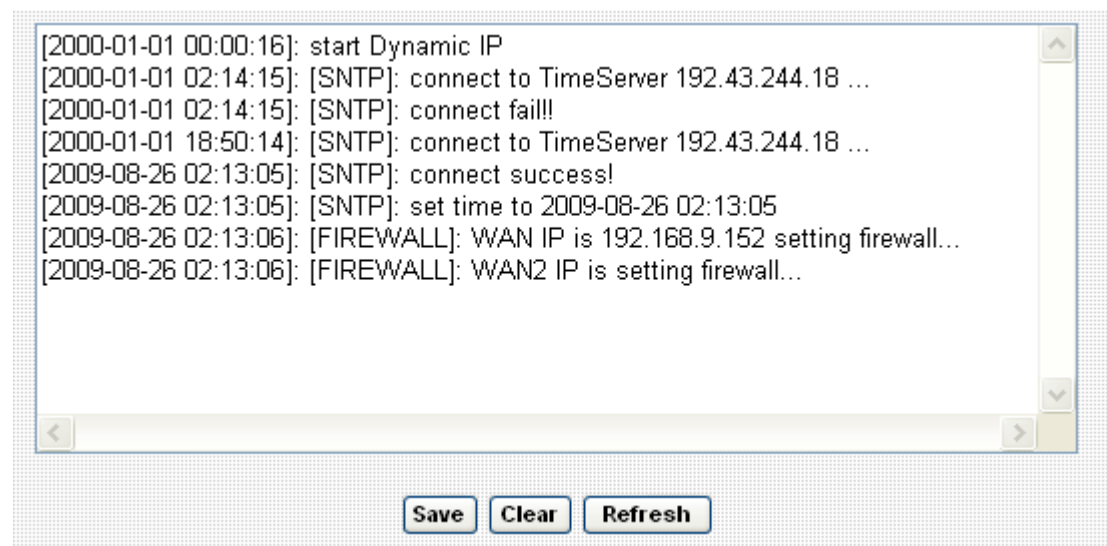
### 5-3 System Log

This page shows all logged system information. You can use scroll bar to view the logs, or click 'Save' to download the log file to your computer. You can also click 'Clear' to remove all logs, or click 'Refresh' to reload logs.



## 5-4 Security Log

This page shows all logged security-related information. You can use scroll bar to view the logs, or click 'Save' to download the log file to your computer. You can also click 'Clear' to remove all logs, or click 'Refresh' to reload logs.



## 5-5 Active DHCP Client

This page shows all current DHCP clients. You can click 'Refresh' to reload the list.

IP Address	MAC Address	Time Expired(s)
None	---	---
<div>Refresh</div>		

## 5-6 Statistics

This page shows the statistical information of network interfaces of this broadband router, and the total system uptime.

Wireless LAN	Sent Packets	12975
	Received Packets	2429239
Ethernet LAN	Sent Packets	8741
	Received Packets	4475
Ethernet WAN	Sent Packets	7032
	Received Packets	733
Running Time	Oday:18:53:27	<a href="#">Restart</a>

[Refresh](#)

## 5-7 Modem Information

This page shows the modem information of you have connected with 3G modem card or xDSL modem.

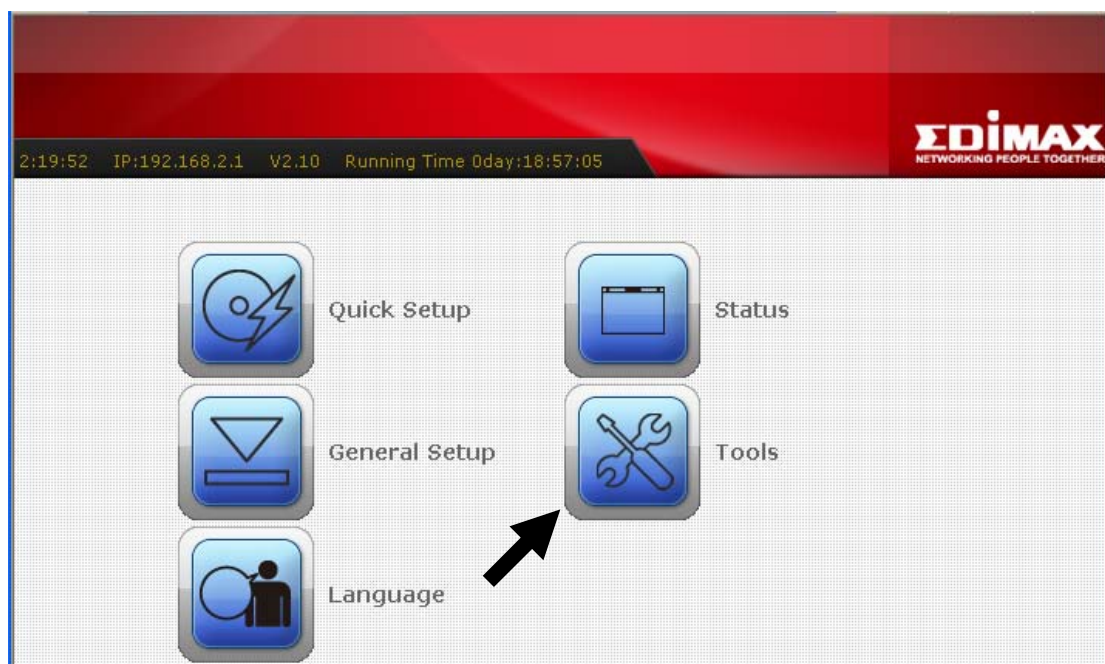
<b>Manufacturer:</b>	N/A
<b>Product:</b>	N/A
<b>IMEI:</b>	N/A
<b>Signal:</b>	N/A

## Chapter V : Tools

This broadband router comes with several tools that will help you to manage the configuration of broadband router, upgrade the firmware, and restart the broadband router.

To use these tools, follow the following instructions:

1. Click 'Tools' button from main menu:





2. The list of tools will appear:

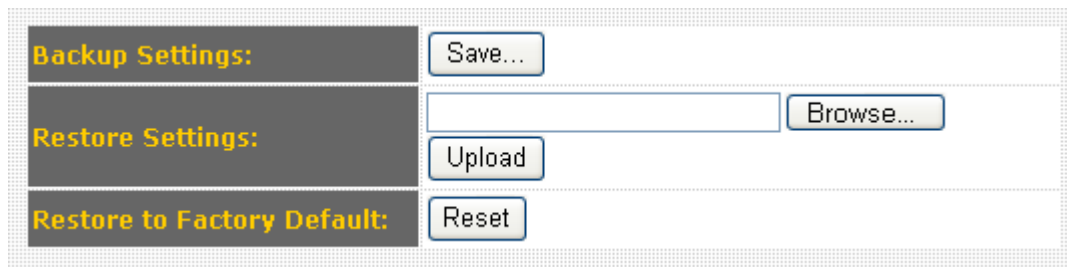
<input type="radio"/>	<b>Configuration Tools</b>	Use the "Backup" tool to save the Broadband router's current configurations to a file named "config.bin". You can then use the "Restore" tool to restore the saved configuration to the Broadband router. Alternatively, you can use the "Restore to Factory Default" tool to force the Broadband router to perform System Reset and restore the original factory settings.
<input type="radio"/>	<b>Firmware Upgrade</b>	This tool allows you to upgrade the Broadband router's system firmware. Enter the path and name of the upgrade file and then click the APPLY button below. You will be prompted to confirm the upgrade. The system will automatically reboot the router after you finished the firmware upgrade process. If you don't complete the firmware upgrade process in the "next" step, you have to reboot the router.
<input type="radio"/>	<b>Restart</b>	In the event that the system stops responding correctly or stops functioning, you can perform a Reset. Your settings will not be changed. To perform the reset, click on the APPLY button below. You will be asked to confirm your decision. The Reset will be complete when the LED Power light stops blinking.

[Previous](#) [Apply](#)

Please select the tool you wish to use, then click 'Apply' button. If you wish to go back to previous page, click 'Previous' button.

## 6-1 Configuration Tools

In this page, you can backup and restore current system configuration, and reset all settings to factory default value.



The screenshot shows a web interface with three main sections. The first section, 'Backup Settings:', contains a 'Save...' button. The second section, 'Restore Settings:', contains a text input field, a 'Browse...' button, and an 'Upload' button. The third section, 'Restore to Factory Default:', contains a 'Reset' button.

Here are descriptions of every setup items:

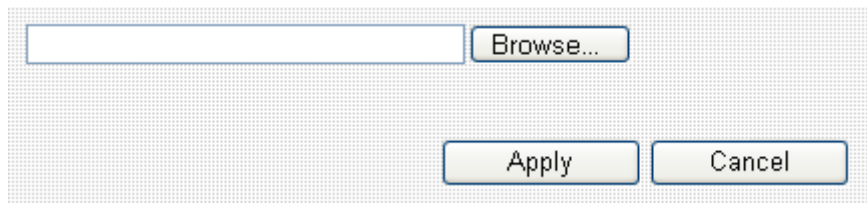
Item Name	Description
<i>Backup Settings</i>	<i>Click 'Save...' button to download the current configuration as 'config.bin' file. Save this file on your computer to keep current configuration. If you want to keep more than one version of configuration file, please rename the configuration file to another name.</i>
<i>Restore Settings</i>	<i>Click 'Browse...' button to select a previously-saved configuration file from your computer, then click 'Upload' to upload the configuration file to broadband router, and the configuration of broadband router will be replaced by the content of uploaded configuration file.</i>
<i>Restore to Factory Default</i>	<i>Click 'Reset' button to restore the settings of the broadband router to factory default value. A pop-up message window will appear and ask you to confirm the reset.</i>

## 6-2 Firmware Upgrade

New firmware releases will provide new functions to this broadband router, and you can use firmware upgrade function to upgrade the firmware to new version.

*NOTE: It's recommended to use wired Ethernet connection to upload the firmware file, please refrain from using wireless connection to upload the firmware file. Also, please do not switch the broadband router or computer you used to upload the firmware file off during firmware upgrade. This will cause broadband router become malfunction and unusable.*

Please download the firmware file from our company's website and save it on your computer, and use firmware upgrade function to upgrade firmware:

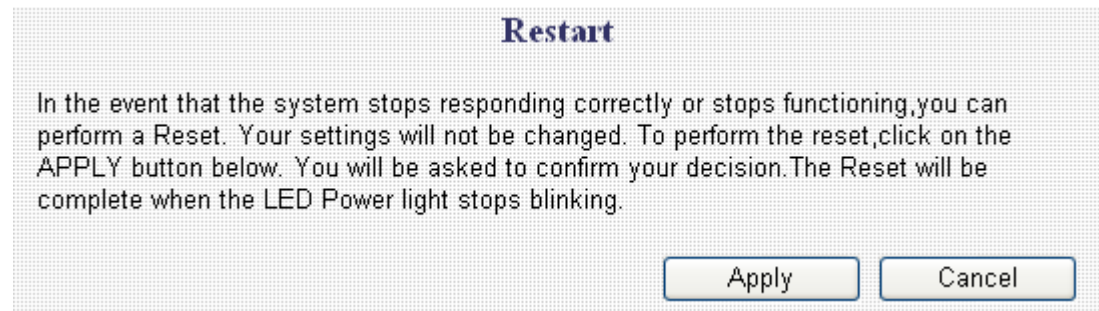


The image shows a web-based interface for firmware upgrade. It features a text input field on the left, a 'Browse...' button to its right, and two buttons labeled 'Apply' and 'Cancel' positioned below the input field and 'Browse...' button.

Please click 'Browse...' button to select the firmware file saved on your computer, then click 'Apply' button to start firmware upload. The broadband router will restart after file upload is successful, and all settings will be lost. Please use default IP address (192.168.2.1) to connect to the broadband router and set every settings again.

## 6-3 Restart

If you found that the broadband router is not functioning correctly, or responding slowly then usual, you can use this function to restart the broadband router, and this may correct the problem.



Click 'Apply' button to restart the broadband router. You'll be prompted to confirm the restart, click 'OK' to restart the broadband router.

## Chapter VI : Language

This 3G router's web-based user interface supports 14-languages . You can change the display language by click 'Language' button in main menu.

To change the display language, follow the following instructions:

1. Click 'Language' button from main menu:



## **Federal Communication Commission Interference Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

### **FCC Caution**

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

### **Federal Communications Commission (FCC) Radiation Exposure Statement**

This equipment must be installed and operated in accordance with provided instructions and a minimum 20 cm spacing must be provided between computer mounted antenna and person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.

The equipment version marketed in US is restricted to usage of the channels 1-11 only.

### **R&TTE Compliance Statement**

This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE)

The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

### **Safety**

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

### **EU Countries Intended for Use**

The ETSI version of this device is intended for home and office use in Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Bulgaria, Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Romania, Slovakia, Slovenia, the Netherlands, Portugal, Spain, Sweden, and the United Kingdom.

The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

### **EU Countries not intended for use**

None

A declaration of conformity is available on [www.edimax.com](http://www.edimax.com)





**EDIMAX Technology Co., Ltd.**

[www.edimax.com](http://www.edimax.com)